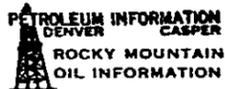


Ram Oil Co. J-7 Hortenstine
SW/4-NE/4 Sec 9-19N-26E 178
Apache, County

P-W

178
ARIZONA
APACHE CO.
PINTA DOME (D)



Twp 19n-26e
Section 9
ne ne
1000 s/n 1000 w/e

OPR: Ram Oil

WELL #: 1 Hortenstein

ELEV: 5734 DF

*TOPS: Log Sample

Chinle 681
Shinarump 802
Moenkopi 826
Coconino 970

DSTS. & CORES:
Crd 970-973, rec 3 sd,
bleeding gas.

SPUD: 3-18-62 COMPI: 5-22-62

TD: 990 PB: 930

CSG: 7" @ 92 w/50
4 1/2" @ 932 w/100

PERF: 732-734, 744-746, 754-764, 768-
774, 787-789 w/4 per ft; sdfract.

PROD. ZONE: Chinle 732-789

INIT. PROD: IPF 150 MCFGPD, 2" tbg,
CP 40#

Contr: Myers

ARIZ2-268280

*For Electric Logs on Rocky Mountain Wells—Ask Us!

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator Ram Oil Co Address 330 west medlock drive, Phoenix

Federal, State or Indian Lease Number or name of lessor if fee lease Hortenstine Well Number 1-9 Field & Reservoir wildcat

Location 1645 FEL + 1645 FNL Sec 9 County Apache

Sec. TWP-Range or Block & Survey 9 - T19N-R-26E

Date spudded 3-18-62 Date total depth reached 4-8-62 Date completed, ready to produce — Elevation (DF, REB, RT or Gr.) 5726 feet Elevation of casing hd. flange — feet

Total depth 993 F.B.T.D. 774 Single, dual or triple completion? DRY If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion — Rotary tools used (interval) 0-993 Cable tools used (interval) —

Was this well directionally drilled? NO Was directional survey made? — Was copy of directional survey filed? — Date filed —

Type of electrical or other logs run (check logs filed with the commission) Induction - Sonic Date filed 4-30-62

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	9" "	7" "	—	92	50	None
Production	4 1/4"	4 1/2"	8 #	932	180	None

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)
—	—	—	—	—	—	—	—

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
4	Jet	732-34, 744-46, 754-64, 768-74	Sand-water frac, 16, 367 gal, 5000 # sd	732-774

INITIAL PRODUCTION

Date of first production DRY Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity * API (Corr)
—	—	—	—	—	—	—

Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio
—	—	—	—	—	—	—

Disposition of gas (state whether vented, used for fuel or sold):

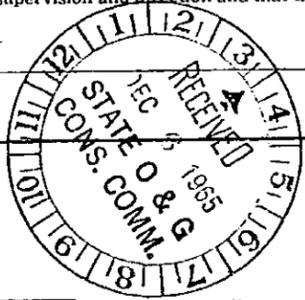
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Agent of the Ram Oil (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 12-15-65 Signature Joe B Barrett

Permit No. 178

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy
Form No. 4

PLUGGING RECORD					
Operator <i>Ram Oil Co</i>		Address <i>Southwest Casualty Insurance Co.</i> <i>758 E. McDowell Phoenix, Ariz.</i>			
Federal, State, or Indian Lease Number, or lessor's name if fee lease.		Well No. <i>1-9</i>	Field & Reservoir <i>Wild Cat</i>		
Location of Well <i>1645 FEL + 1645 FNL</i>		Sec-Twp-Rge or Block & Survey <i>9 T 19 N - R 26 E</i>		County <i>Apache</i>	
Application to drill this well was filed in name of <i>Ram Oil Co.</i>	Has this well ever produced oil or gas <i>NO</i>	Character of well at completion (initial production): Oil (bbls/day) _____ Gas (MCF/day) _____		Dry? <i>yes</i>	
Date plugged: <i>11-28-65</i>	Total depth <i>993 P.B. 774</i>	Amount well producing when plugged: Oil (bbls/day) _____ Gas (MCF/day) _____		Water (bbls/day) _____	
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement	
<i>Some He gas in Shinarump cong. open to well bore</i>	—			<i>58ft Plug in bottom with 115x</i>	
	—			<i>22' Plug w/35x in surface</i>	
	—				
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
<i>7"</i>	<i>92'</i>	—	<i>92'</i>	—	—
<i>4 1/2"</i>	<i>932'</i>	—	<i>932'</i>	—	—
Was well filled with mud-laden fluid, according to regulations?			Indicate deepest formation containing fresh water.		
			<i>None</i>		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
<i>Pat Paulsel</i>	<i>Navajo Ariz</i>		<i>West</i>		
<i>Jay Reese</i>	<i>Navajo Ariz</i>		<i>East, South, North.</i>		
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u><i>Agent</i></u> of the <u><i>Ram Oil</i></u> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date <i>12-6-65</i>		Signature <i>Joe P. Barrett</i>			
Permit No. <i>178</i>		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy Form No. 10			



APPLICATION TO ABANDON AND PLUG

FIELD Wild cat
OPERATOR Ram Oil Co ADDRESS Southwest Casualty Insurance Co. 758 E McDowell Phoenix Ariz.
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Hertenshine WELL NO. 1-9
SURVEY T19N-R26E SECTION 9 COUNTY Apache
LOCATION 1625' From EL +1645 FNL

TYPE OF WELL Dry Hole TOTAL DEPTH 993 PB 774
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned) _____
LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
GAS _____ (MCF) DATE OF TEST _____
PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD
7" @ 92'
4 1/2" @ 932'

2. FULL DETAILS OF PROPOSED PLAN OF WORK set 50' cmt Plug in Bottom
+ 20' cmt. Plug in surface with Regulation
Dry Hole Marker in top.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS As soon as Approved
NAME OF PERSON DOING WORK Joe Barrett ADDRESS 2211 N 81st way
CORRESPONDENCE SHOULD BE SENT TO Joe B. Barrett
Name Geologist
Title 2211 N 81st way Scottsdale Ariz
Address 11-22-65
Date



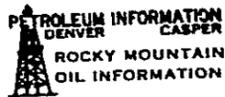
Date Approved 12/13-65
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Y. Sannister

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
File Two Copies
Form No. 9

Permit No. 178

ARIZONA
APACHE CO.
PINTA DOME (D)

178



Twp 19n-26e
Section 9
ne ne
1000 s/n 1000 w/e

WELL #: 1 Hortenstein

OPR: Ram Oil

ELEV: 5734 DF

*TOPS: Log Sample

Chinle 681
Shinarump 802
Moenkopi 826
Coconino 970

DSTS. & CORES:
Crd 970-973, rec 3 sd,
bleeding gas.

SPUD: 3-18-62

TD: 990

CSG: 7" @ 92 w/50

4 1/2" @ 932 w/100

PERF: 732-734, 744-746, 754-764, 768-774, 787-789 w/4 per ft; sdfract.

COMPL: 6-22-62

PB: 930

PROD. ZONE: Chinle 732-789

INIT. PROD: IPF 150 MCFGPD, 2" thg,
CP 40#

Contr: Myers

ARIZ2-268280

*For Electric Logs on Rocky Mountain Wells—Ask Us!

APACHE COUNTY ARIZONA PINTO DOME 9-19N-26E

Well: RAM OIL CO. #1 Hortenstein
Loc'n: SW NE, 9-19N-26E, 1445' FNL, 1445' FEL; 850' Coco test;
C/W. T. Myers Drlg. Co.

Result: GAS

Spud: 3-11-62; Comp: 8-10-62; Elev: 5734' DF; TD: 990'; PB: 930'
Casing: 7 7/8" 50 sx, 4 1/2" 932' /100 sx
Prod Zone: (Chinle) T/Pay 732', Prod thru perfs 88/732-789'
IPF: 150,000 CFGPD, 7.3% helium, FCP 40#
Comp Info: Core #1, 970-973', rec 3' 3" sd, bledg gas; No DST's reptd; Perf 732-734',
744-746', 754-764', 768-774', 787-789' /4; SWP: F/150,000 CFGPD, 7.3% helium,
Tops: (EL) Chinle 681', Coco 970', (Spl) Coco 970'.

Oil #178

NO *

See Appendix
OIL REPORTS

Date: 9-28-62

Card No.:

1 dfm

(2) 9-19N-26E
1445' FNL-1445' FEL
Ram Oil Company
Hortensine #1

*82262
PIN*

WILDCAT, 1/4 mi S/Pinta Field; 850' Coconino test; C/W. T. Myers Drig Co, Albuquerque; elev 5726' GL; TD 943'; FBTD 774'; perf 732-34', 744-46', 754-64', 768-74', w/4 shots per ft; flwd Helium/not gauged; prep to work over.
FINAL REPORT.

3-62

STEP-OUT

RAM OIL COMPANY of Phoenix has announced a new stepout location immediately south of the Pinta Dome Helium Field, Apache County, Arizona. The test well which is located 1445 feet from-the-north-line and 1445 feet from-the-east-line of Section 9, Township 19 North, Range 26 East, will be drilled to a total depth of approximately 1000 feet. W. T. Myers Drilling Company of Albuquerque will have the contract.

Nearest production is approximately 3/4 of a mile north in Section 4, Township 19 North, Range 26 East, where Kerr-McGee's State #3 is presently in production.

Pet. In fo card -

Elev. 5734 DF

Tops:

Chinle 681 what they talking about? chinle at surface!

Shinarump 802

Moenk. 826

CoCo 970 - doesn't give with above.

TD 990 - doesn't agree with above

01-178?

HA-1 Revised 6-26-58

REPORT OF ANALYSIS

State Arizona F.S. No. 8638 - B

County Apache Field Pinta Outcrop

Well Owner Ram Oil Company Name Ram-Morrison 1-9

Location: Sec. 9 T. 19 N R. 26 E Date Completed Not Complete

Open Flow MCF/D Not Completed Wellhead Pressure p.s.i.g. 125 lbs.

Producing Stratum:

Depth to (feet): 732 Thickness (feet): 8

Stratigraphic Position of Producing Formation Nassi Chino

Sampled: Date: August 10, 1962 By: Joe B. Barrett

Mass Spectrometer Run No. _____ Date of Run _____

Analysis:

Methane	<u>Trace</u> %	Normal Pentane	<u>0.0</u> %	Oxygen	<u>10.5</u> %
Ethane	<u>Trace</u> %	Isopentane	<u>0.0</u> %	Argon	<u>0.7</u> %
Propane	<u>0.2</u> %	Cyclopentane	<u>Trace</u> %	Helium	<u>1.55</u> %
Normal Butane	<u>0.0</u> %	Hexanes Plus	<u>0.0</u> %	Hydrogen	<u>1.2</u> %
Isobutane	<u>0.0</u> %	Nitrogen	<u>85.7</u> %	H ₂ S	<u>0.0</u> %
				CO ₂	<u>0.1</u> %

Calculated gross B. t. u./cu. ft., dry at 60°F. and 30" mercury 9 Total

HA-1 Revised 6-26-58

REPORT OF ANALYSIS

State Arizona F.S. No. 8638 - A
County Apache Field Pinta Outcrop
Well Owner Ram Oil Company Name Ram-Mortensine 1-9
Location: Sec. 9 T. 19 N R. 26 E Date Completed Not Complete
Open Flow MCF/D Not Completed Wellhead Pressure p.s.i.g. 125 lbs.
Producing Stratum:
Depth to (feet): 732 Thickness (feet): 8
Stratigraphic Position of Producing Formation Basal Chinle

Sampled: Date: August 10, 1962 By: Joe B. Barrett
Mass Spectrometer Run No. _____ Date of Run _____

Analysis:

Methane	<u>Trace</u> %	Normal Pentane	<u>Trace</u> %	Oxygen	<u>9.1</u> %
Ethane	<u>0.0</u> %	Isopentane	<u>0.0</u> %	Argon	<u>0.7</u> %
Propane	<u>0.2</u> %	Cyclopentane	<u>Trace</u> %	Helium	<u>2.39</u> %
Normal Butane	<u>Trace</u> %	Hexanes Plus	<u>0.1</u> %	Hydrogen	<u>4.2</u> %
Isobutane	<u>0.0</u> %	Nitrogen	<u>83.2</u> %	H ₂ S	<u>0.0</u> %
				CO ₂	<u>0.0</u> %

Calculated gross B. t. u./cu. ft., dry at 60°F. and 30" mercury 24 Total



HALLIBURTON COMPANY

FRACTURING SERVICE TREATING REPORT

Attach To Ticket No. 208633

Halliburton District Farmington N.M. Stage No. 3
Halliburton Division Lubbock Page No. 1

Field Skull Butte Sec. 9 Twp. 19 N Rng. 2 E County Apache State ARIZONA

THE FOLLOWING INFORMATION WAS FURNISHED BY THE WELL OWNER OR HIS AGENT:

Form with fields for Date Completed, Casing, Liner, Perf., Open Hole, Prev. Treat, Fluid, Pres. Treat, Tubing, Packer, Max. Allowable Pres., and Treat Thru.

MATERIALS USED and TREATMENT SUMMARY sections containing data for Type Job, Fluid, API Gravity, Sand, Surfactant, Acid, Fluid Loss Add., Perfpac Balls, Blocking Agent, Gelling Agent, Breaker, Trucks, Hyd. HP Available, Pumps, AVERAGE RATES, PRESSURES, and VOLUMES.

TREATING LOG

Table with columns: TIME, Operation or Amt. and Type Fluid Pumped, RATE, PUMPS, PRESSURE-PSI (TUBING, CASING), and REMARKS. Contains handwritten entries for Breakdown, Start Sand, Increase Sand, Start Fluid, and Job completed.

Halliburton Operator

Keith R. Wright

Company Representative

J. B. Barnett

Copies Requested

CUSTOMER'S COPY

FRACTURING Company

RAM OIL CO.

Lease Halliburton

Well No. 1

Date 1-11-62

FORM 1387 R2



HALLIBURTON COMPANY

FRACTURING SERVICE TREATING REPORT

Attach To Ticket No. 208631 Stage No. 2 Page No. 1

Halliburton District Farmington Halliburton Division Lubbock

Field Sec. 9 Twp. 19N Rng. 26E County Apache State Arizona

THE FOLLOWING INFORMATION WAS FURNISHED BY THE WELL OWNER OR HIS AGENT:

Form section containing well completion details: Date Completed, Casing OD, Liner OD, Perf. From/To, Open Hole Size, Prev. Treat. Date, Fluid Gal., Pres. Treat. Interval, Tubing Size, Packer Type, Max. Allowable Pres., Treat Thru.

MATERIALS USED and TREATMENT SUMMARY sections. Includes Type Job (Sand/Water), Fluid Source (Custom), API Gravity, Sand Grade, Surfactant, Acid, Fluid Loss Add., Perfpac Balls, Blocking Agent, Gelling Agent, Breaker, Trucks (No. and Type), Hyd. HP Available, Pumps On Tubing, AVERAGE RATES-BPM, PRESSURES-PSI, VOLUMES.

TREATING LOG

Table with columns: TIME, Operation or Amt. and Type Fluid Pumped, RATE, PUMPS, PRESSURE-PSI (TUBING, CASING), REMARKS. Contains handwritten entries for operations like 'Breakdown', 'start sand', 'Increase sand', 'Drop 10 Balls', 'Ball on Perforation', 'Drop 10 Balls', 'Ball on Perforation', 'Start Flush', 'Job Complete'.

Halliburton Operator

Keith R. Wright

Company Representative

John B. Barrett

Copies Requested

CUSTOMER'S COPY

FRACTURING Company Perm Oil Co. Lease Horton

Well No. 1

Date 4-3-62

FORM 1387 RZ



HALLIBURTON COMPANY

FRACTURING SERVICE TREATING REPORT

ch To Ticket No. ES 208631

Halliburton District Farmington, N.M. Stage No. 1
Halliburton Division Lubbock Page No. 1

Field Sec. 9 Twp. 19N Rng. 2E County Apache State ARIZONA

THE FOLLOWING INFORMATION WAS FURNISHED BY THE WELL OWNER OR HIS AGENT:

Form with fields for Date Completed, Casing, Liner, Perf., Open Hole, Prev. Treat, Fluid, Pres. Treat, Tubing, Packer, Max. Allowable Pres., and Treat Thru.

MATERIALS USED and TREATMENT SUMMARY sections containing details on fluid types, grades, and treatment parameters like rates and pressures.

TREATING LOG

Table with columns: TIME, Operation or Amt. and Type Fluid Pumped, RATE, PUMPS, PRESSURE-PSI (TUBING, CASING), and REMARKS. Includes handwritten entries for Breakdown, start sand, increase sand, start flush, and job completed.

Halliburton Operator: Keith R. Wright

Company Representative: Joe P. Barrett

CUSTOMER'S COPY

Copies Requested

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR _____ DATE **March 5, 1962**

Ram Oil Company _____ **Arizona**
Address City State
3518 N. 24th Street _____ **Phoenix** _____ **Arizona**

DESCRIPTION OF WELL AND LEASE

Name of lease Hortenstine	Well number 1	Elevation (ground) to be furnished
-------------------------------------	-------------------------	--

Well location (give footage from section lines) Section—township—range or block & survey
1645' from East section line-1645' from No. Section Line, Sec. 9, 19N, 26E

Field & reservoir (If wildcat, so state) County
Pinta Dome _____ **Apache**

Distance, in miles, and direction from nearest town or post office
5 mi. S.W. Navajo, Arizona

Nearest distance from proposed location to property or lease line: 1645 ft. feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: _____ feet
--	---

Proposed depth: 1100 ft.	Rotary or cable tools Rotary	Approx. date work will start soon as possible
------------------------------------	--	---

Number of acres in lease: 640 acres	Number of wells on lease, including this well, completed in or drilling to this reservoir: None
---	---

If lease, purchased with one or more wells drilled, from whom purchased: Name Address

Status of bond
Blanket bond on file in your office

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)
ALL FRESH WATER ZONES WILL BE PROTECTED.

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Sec - Treas.** of the **Ram Oil Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

RAM OIL COMPANY

Date **March 5, 1962** Signature *Carl T. Booth*

Permit Number: **178**
 Approval Date: **March 5, 1962**
 Approved By: *[Signature]*
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
 See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
 Application to Drill, Deepen or Plug Back
 Form No. P-1 File two copies
 Authorized by Order No. _____
 Effective ~~XXXXXX~~

D.A.P.
1286

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

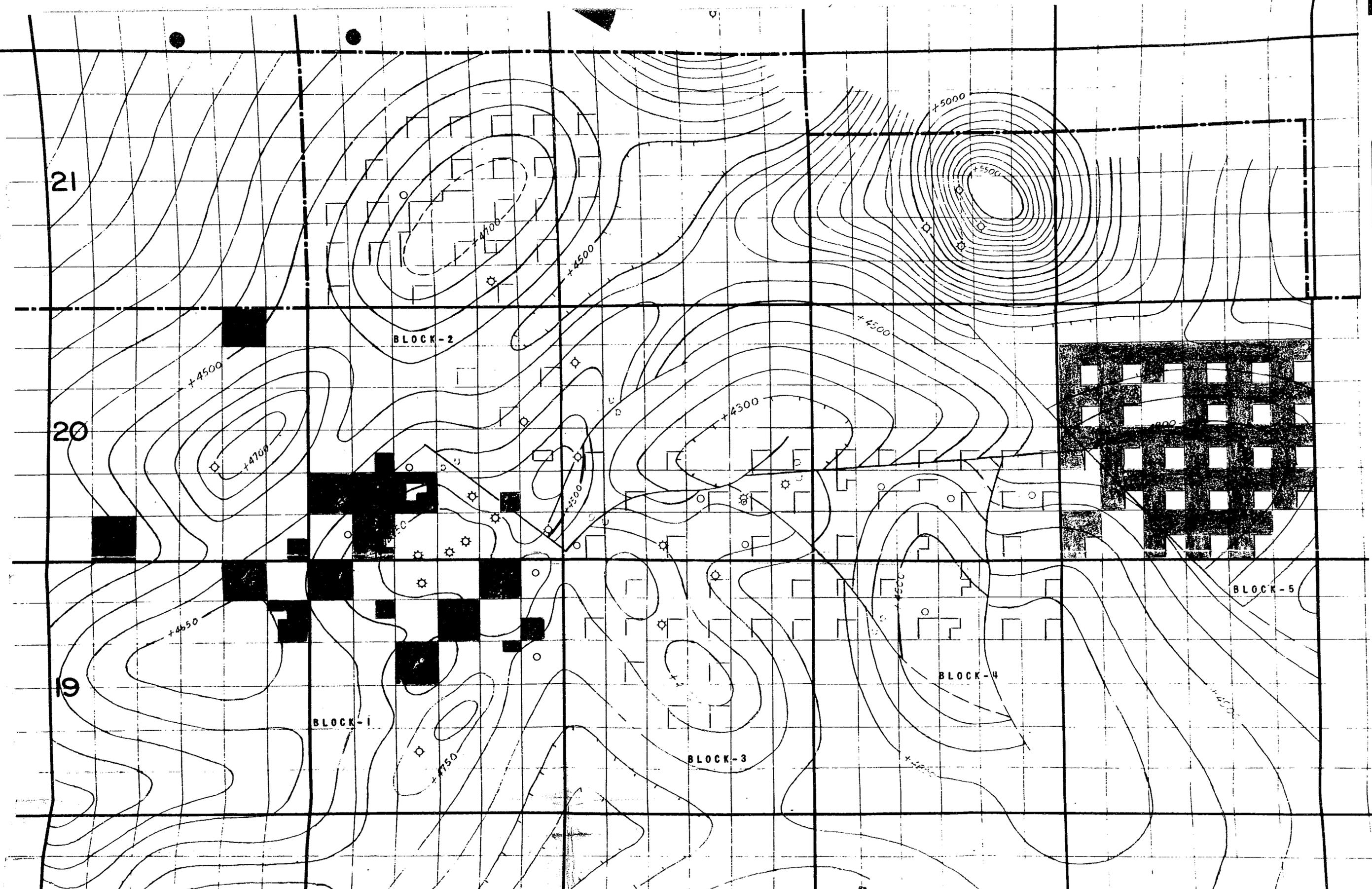
Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

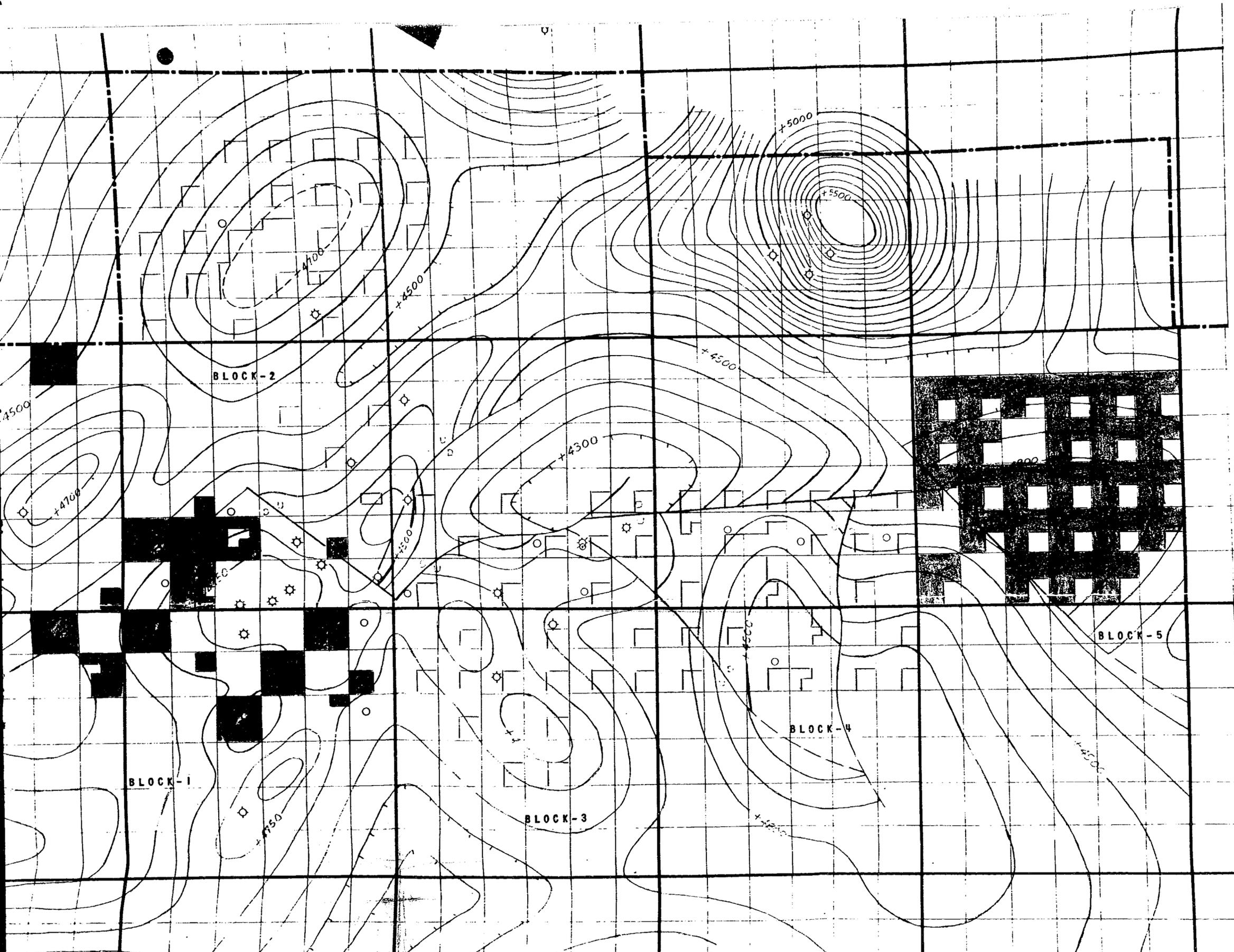
Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
75' of 5 1/2"	151b				Circulate	

Form No. P-1



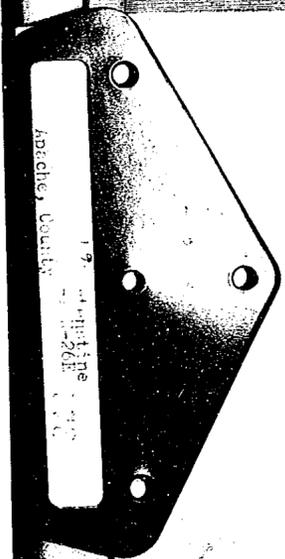
BLOCK 1	459	ROYALTY ACRES
BLOCK 2	1300	" "
BLOCK 3	1005	" "

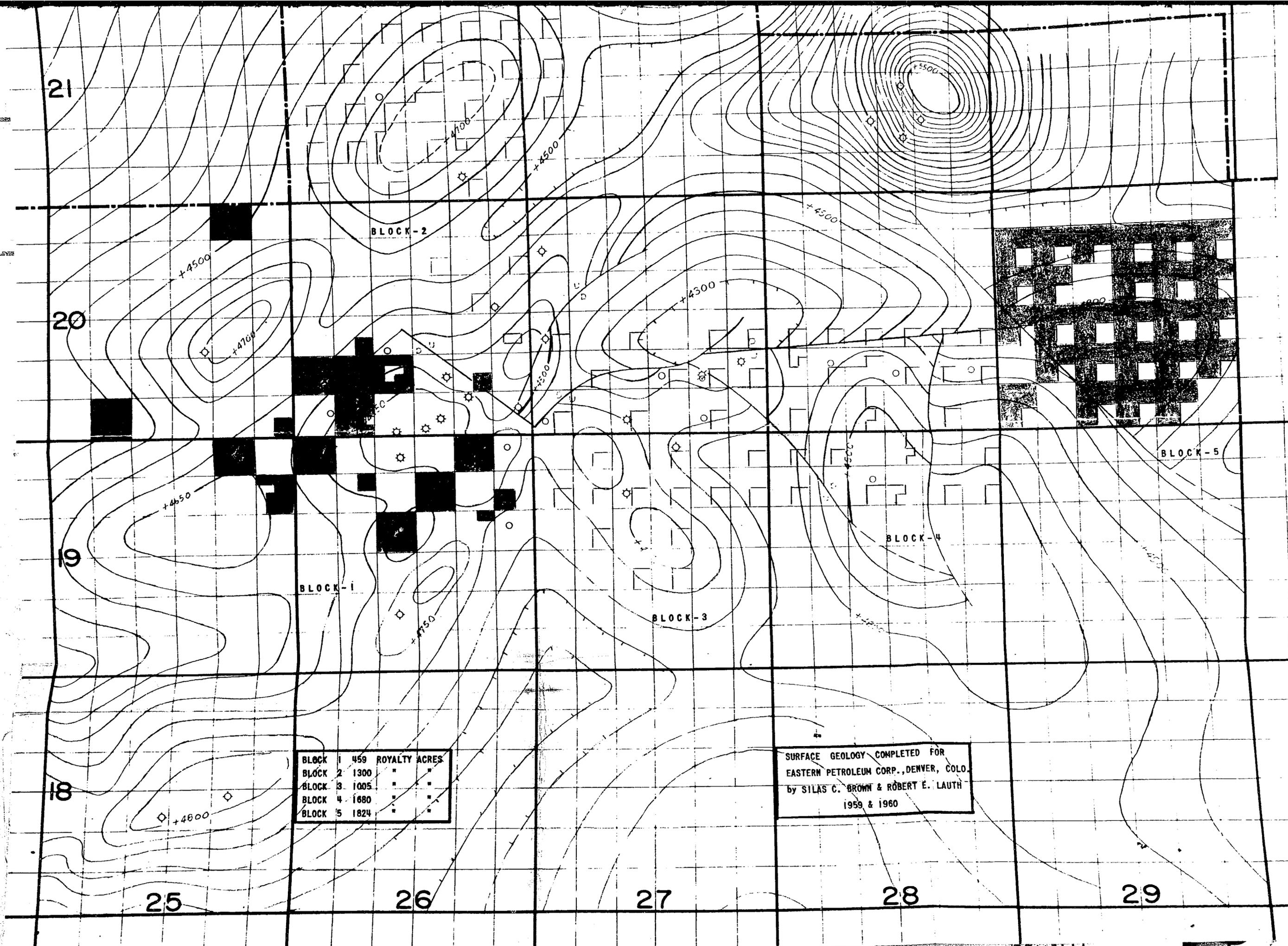
SURFACE GEOLOGY COMPLETED FOR
EASTERN PETROLEUM CORP., DENVER, COLO.



BLOCK 1	459	ROYALTY ACRES
BLOCK 2	1300	" "
BLOCK 3	1005	" "

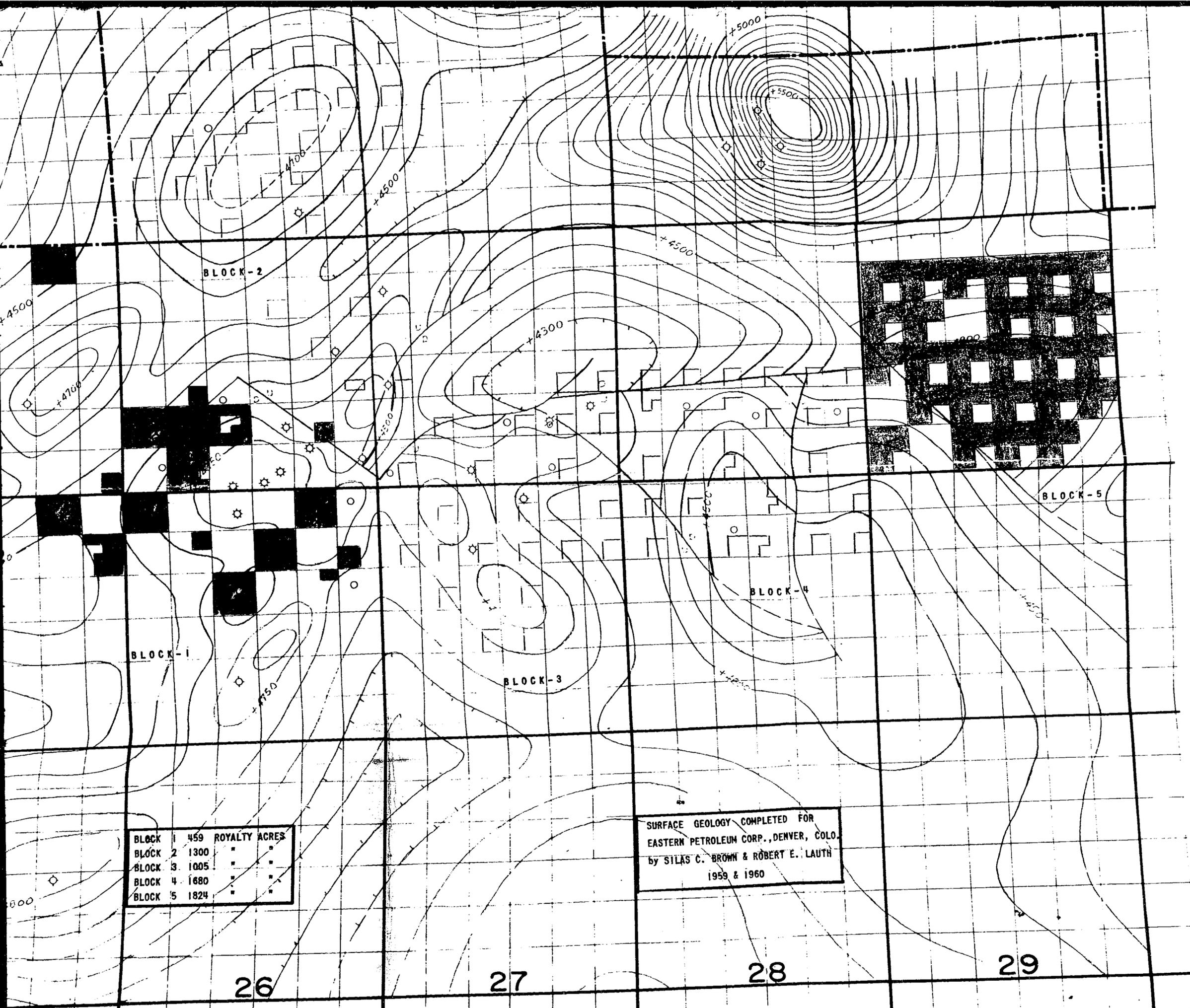
SURFACE GEOLOGY COMPLETED FOR
 EASTERN PETROLEUM CORP., DENVER, COLO.
 by SILAS C. BROWN & ROBERT E. LAUTH





BLOCK	ROYALTY ACRES
BLOCK 1	459
BLOCK 2	1300
BLOCK 3	1005
BLOCK 4	1680
BLOCK 5	1824

SURFACE GEOLOGY COMPLETED FOR
 EASTERN PETROLEUM CORP., DENVER, COLO.
 by SILAS C. BROWN & ROBERT E. LAUTH
 1959 & 1960



BLOCK	ROYALTY ACRES
BLOCK 1	459
BLOCK 2	1300
BLOCK 3	1005
BLOCK 4	1680
BLOCK 5	1824

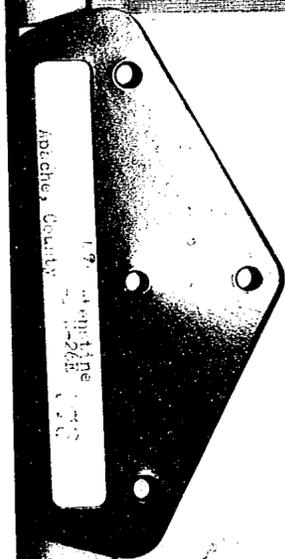
SURFACE GEOLOGY COMPLETED FOR
 EASTERN PETROLEUM CORP., DENVER, COLO.
 by SILAS C. BROWN & ROBERT E. LAUTH
 1959 & 1960

26

27

28

29



NE Cor. Sec. 9, T.19N.-R.26E.

1645'

PROP. LOCATION HORTENSTINE No. 1

1645'

⑨

CEN. SEC. 9, T. 19N.- R. 26 E.



SCALE 1"=500'

This plot represents a survey made by L. W. Vernon on 6th March, 1962, to establish location for Ram Oil Company -- Hortenstine well.

January 11, 1949

Southwest Casualty Insurance Company
738 E. McDowell Road
Phoenix, Arizona

Re: Your Bond 1437
Ram Oil Company, Principal

Enclosure:

Ram Oil Company has fulfilled its obligations to this Commission for wells drilled under captioned bond.

This letter shall constitute authority from this Commission to terminate captioned bond.

Very truly yours,

John Hammett
Executive Secretary
et

cc: File 139
167
177
178
143
196



SAMUEL P. GODDARD
GOVERNOR
LYNN LOCKHART
CHAIRMAN
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ORME LEWIS
MEMBER
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MEMBER
GEORGE T. SILER
MEMBER

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

JOHN BANNISTER
EXECUTIVE SECRETARY
J. R. SCURLOCK
PETROLEUM GEOLOGIST

November 4, 1965

Southwest Casualty Insurance Company
758 E. McDowell Road
Phoenix, Arizona

Re: Your Bond 2857

Ram Oil Co. #1-9 Hortenstine well
SW/4NE/4 9-19N-26E, Apache County, Arizona
Our File 178

Ram Oil Co. #1-5 Hortenstine well
SW/4NE/4 5-19N-26E, Apache County, Arizona
Our File 196

Gentlemen:

The captioned bond was issued to cover statewide drilling operations of the Ram Oil Company, including the captioned wells.

Inasmuch as these captioned wells have not been completed in accordance with our Rules and Regulations, we order that these wells be plugged as indicated below.

Ram Oil Co. #1-5 Hortenstine well

Our records show that this well was drilled in 1963 to a total depth of 948 feet. Four and one-half inch casing was set to 864 feet and cemented with thirty sacks.

A 50-foot cement plug should be set from 948 feet to 850 feet, or the lowest possible depth, and a 20-foot cement surface plug should be set.

Ram Oil Co. #1-9 Hortenstine well

This well was also drilled in 1963 to a total depth of 993 feet. Four and one-half inch casing was set at 932 feet with 100 sacks of cement.

This well should be plugged with a 50-foot cement plug from the bottom. A 20-foot cement plug should be set at the surface.

Southwest Casualty Insurance Co.
Page 2
November 4, 1965

In addition, a piece of four-inch pipe must be set in the surface plug of each well, which pipe must protrude a minimum of four feet above the surface of the earth and contain the following information welded to the pipe:

- (a) name of well
- (b) quarter-quarter location
- (c) permit number

Upon completion of these plugging programs, a Plugging Record must be filed with this Commission as evidence of the completion of the outlined programs.

As indicated in this Commission's letter of September 2, 1965 to you, the Ram Oil Company #1 Sierra Bonita well has been accepted by the Sierra Bonita Ranch as a water well, thus relieving Ram Oil Company of any further responsibility concerning this well.

We are holding any action on the Ram Oil Co. #1 State well (our File 159) pending word from a man who will let us know by December 15, 1965 whether or not he will take this well for a water well.

We are also holding action on the Ram Oil Co. #1-14 well (our File 167) pending agreement by the current oil and gas lessor to assume responsibility for this well.

We will of course inform you if any plugging action will be required on these wells.

The Ram Oil Company #1A-14 State well (our File 177) has been completed and all information has been filed in accordance with our Rules and Regulations. Consequently no further action is required.

The outlined plugging programs should be conducted as soon as feasibly possible. Should you have any questions concerning this action of the Commission, will you please advise. We will be glad to help you in all ways possible.

Very truly yours,

J.R. Scurlock
Petroleum Geologist
mr



SAMUEL P. GODDARD
GOVERNOR

LYNN LOCKHART
CHAIRMAN

R. KEITH WALDEN
VICE CHAIRMAN

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MEMBER

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

JOHN BANNISTER
EXECUTIVE SECRETARY

J. R. SCURLOCK
PETROLEUM GEOLOGIST

September 2, 1965

Southwest Casualty Insurance Company
758 E. McDowell Road
Phoenix, Arizona

Re: Your Bond 2857 in the amount of \$10,000
Principal, Ram Oil Company

Gentlemen:

As you are aware, the captioned bond has been posted with this Commission as both a penalty and performance bond.

We are enclosing a copy of a letter of this date to Mr. Maynard Davies, Ram Oil Company, concerning outstanding obligations for five wells drilled under this bond.

In addition to the five wells mentioned in the attached letter, Ram Oil Company has also drilled under this captioned bond the Ram Oil Co. #1 Sierra Bonita Fee well, located SE SE 2-11S-22E, Graham County, our Permit 249. Presently this well has been plugged back to a total depth of 500 feet and indications are that the owner of the Sierra Bonita Ranch has taken this well as a water well.

At such time as a letter indicating the intent of the rancher to accept the well as a water well and the necessary Well Completion Report has been filed with this office, obligation of Ram Oil Company and of your company as surety will terminate as to this well.

This office feels that in view of the fact there is a potential loss to your company as to the plugging requirements of at least the five wells mentioned in the attached letter, that you should be put on notice concerning Ram Oil Company's obligations.

Should you have any questions, will you please advise.

Yours very truly,

John Bannister
Executive Secretary
mr

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SAMUEL P. GODDARD
GOVERNOR

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OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

JOHN BANNISTER
EXECUTIVE SECRETARY

J. R. SCURLOCK
PETROLEUM GEOLOGIST

September 2, 1965

Mr. Maynard Davies, President
Ram Oil Company
330 W. Medlock Drive
Phoenix, Arizona

Dear Mr. Davies:

We have reviewed the wells drilled by Ram Oil Company in this State and find that the situation is as follows:

Ram Oil Co. #1 State well
SE SE 29-11N-31E, Apache County
Permit 159

On January 25, 1963 we were advised that drilling operations had been temporarily suspended pending a temperature survey. Since this date no further work has been done, to our knowledge, on this well.

Apparently this well has been capped but not plugged. Consequently, at your earliest convenience, this well must be plugged in accordance with our Rules and Regulations. The necessary Application to Plug, Plugging Record, and Well Completion Report forms are enclosed for your convenience. These, together with copies of all logs taken should be filed with this office.

Ram Oil Co. #1-14 State well
SW SW 14-19N-26E, Apache County
Permit 167

There is some indication in our files that this well had an initial potential of 86MCF per day. However, no further evidence of activity on this well is in our file.

Consequently, this well should be plugged. The necessary Application to Plug, Plugging Record, Well Completion Report, together with the copies of logs, should be filed with this office.

Mr. Maynard Davies

Page 2

September 2, 1965

Ram Oil Co. #1A-14 State well
SW SW 14-19N-26E, Apache County
Permit 177

The Plugging Report has been filed on this well. However, we need the Well Completion Report and copies of any logs taken.

Ram Oil Co. #1-9 Hortenstine well
SW NE 9-19N-26E
Apache County
Permit 178

Our file indicates that this well was abandoned on December 31, 1963. Copies of logs have been filed.

We need an Application to Plug, the Plugging Record, and Well Completion Report.

Ram Oil Co. #1-5 Hortenstine well
SW NE 5-19N-26E, Apache County
Permit 196

The last report our file has on this well is a letter dated January 25, 1963, wherein it was indicated that Ram Oil Company was preparing to frac this well. We have no further indication of work on this well.

We need an Application to Plug, the Plugging Record, and the Well Completion Report. Logs have been filed.

As you are aware, our Rules and Regulations provide that when work has been suspended on a well for a period of sixty days, the well must be plugged and abandoned unless written consent has been obtained from this office. In none of the above cited cases have indications of additional work, nor requests for extension of time, been filed with this office.

Consequently, we ask that all the above requirements be met as soon as possible.

As you are aware, all of the above wells are bonded under Southwest Casualty Company's bond 2857.

If this office may assist you in this work in any way, will you please advise. Your prompt cooperation will be appreciated.

Yours very truly,

John Bannister
Executive Secretary
mr
enc

January 22, 1965

Memo: To File

Re: Ram Oil Company

Mr. Sitver, Attorney representing Kramer & Franco, CPA firm, telephoned.

Judgment had been won by Kramer & Franco for unpaid fees against Ram Oil Company. Mr. Sitver requested and was furnished well location information.

Mr. Bannister explained that the lease Ram is now drilling on is in escrow and at this time is not under their control. Mr. Bannister also advised of the lien filed in Safegord against casing.

Mr. Sitver will keep this office informed of any action taken.



PAUL FANNIN
GOVERNOR
LYNN LOCKHART
CHAIRMAN

CHARLES KALIL, M.D.
MEMBER
ORME LEWIS
MEMBER
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MEMBER

JOHN BANNISTER
EXECUTIVE SECRETARY

OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202
1614 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-2161

August 28, 1964

Mr. Maynard J. Davies
Managing Director
Ram Oil Company
330 West Madlock Drive
Phoenix, Arizona

RE: File No.'s 159, 167, 177, 178, 196 and 249

Dear Mr. Davies:

As mentioned in our telephone conversation of August 27, 1964, I have reviewed the files of the above referenced permits issued to the Ram Oil Company. Listed below please find the information that these files now show and a brief summary of what forms are required to put Ram Oil Company on a current and operating status.

File #159 Ram Oil Company State #1
 Sec. 29 Twp. 11N R. 31E
 Apache, County

This file contains no information other than the original date of issue of the permit. Form #25, Sundry Notice is required.

File #167 Ram Oil Company State #1-14
 Sec. 14 Twp. 19N R. 26E
 Apache, County

File indicates that this well is a shut-in gas well awaiting pipeline connections. Form #25, Sundry Notice is required.

File #177 Ram Oil Company State #1A-14
 Stratographic Test
 Sec. 14 Twp. 19N R. 26E
 Apache, County

(Cont'd)

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(Page 2, Continued)

This file indicates that this test has been plugged and abandoned. Form #4, Completion Report is required.

File #178 Ram Oil Company Hortenstine #1-9
Sec. 9 Twp. 19N R. 26E
Apache, County

This file indicates that we have no information other than the original issuance date for the permit. Form #35, Sundry Notice is required.

File #196 Ram Oil Company Hortenstine #1-8
Sec. 5 Twp. 19N R. 26E
Apache, County

This file contains no information other than the original date of the issuance of the permit. Form #35, Sundry Notice is required.

File #249 Ram Oil Company Sierra Beakta Pcs #1
Sec. 3 Twp. 11S R. 22E
Graham, County

A sixty (60) day shut down extension was granted on this well on July 23, 1964.

I hope that this information brings you up to date and if I may be of further assistance to you, will you please advise.

Very truly yours,

Bill Cooper
Records Section

cc/Files
Enclosure



PAUL FARRER
GOVERNOR
R. EDITH WALLEN
COMMISSIONER
LYNN LORING
VICE COMMISSIONER
CHARLES HALL, U.S.
SENATOR
ROBERT S. NEWBORN
SENATOR
ORRIN LORING
SENATOR

OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
ROOM 202
1224 WEST ADAMS
Phoenix 7, Arizona
271-2121

JOHN K. PETTY
ACTING EXECUTIVE SECRETARY

December 27, 1963

Mr. Donald Hornecker
Secretary-Treasurer
Ram Oil Company
2727 North Central Avenue, Suite 414
Phoenix, Arizona

Re: Blanket Drilling Bond No. 2857, \$10,000.00
Southwest Casualty Insurance Company of Fayetteville, Arkansas

Dear Mr. Hornecker:

This is to advise that above referenced bond has been accepted by this Commission to satisfy A.R.S. 27-516 and other Commission requirements to supersede Blanket Bond No. 219989 of the Security Insurance Company of New Haven, Connecticut which was cancelled October 30, 1963.

Very truly yours,

John K. Petty
Acting Executive Secretary

JKP:MEC

cc: Ms. Janeth M. Klingler
Western States General Agency
P. O. Box 5195
Phoenix, Arizona

cc: Woodland Insurance Agency, Inc.
P. O. Box 10335
Phoenix, Arizona

- Files: 1. Ram Oil Company - State No. 1 - SE SE Sec 29-T11N-R26E
Apache County
2. Ram Oil Company - Hortonastine #1 - Sec 9-T19N-R26E, Apache
3. Ram Oil Company - Hortonastine #1-B - SW NE Sec 5-T19N-R26E
Apache County
4. Ram Oil Company - State #1 - 14 - SW SW Sec 14-T19N-R26E
Apache County
5. Ram Oil Company - Ram-Sierra Bonita Fee #1 - Sec 2-T11S-R22E,
Graham County

July 1, 1963

Mr. Donald E. Hornecker, Secretary-Treasurer
Ran Oil Company
Suite 414 - 2727 North Central Avenue
Phoenix 4, Arizona

Re: Ran-Hortemstine #105 and #1-9 Wells
Apache County, Arizona

Dear Mr. Hornecker:

Thank you for your letters of June 28 relative to the
status of the captioned wells.

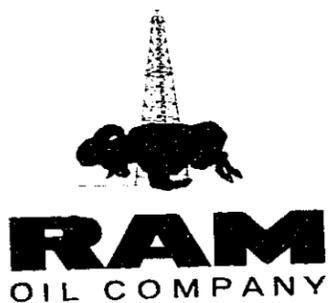
We are enclosing a supply of completion reports which
will enable you to file these reports with us when they
are required.

We are extending our period of receipt of such completion
reports 90 days for your convenience.

Yours very truly,

E. A. Ludewick
Executive Secretary

encl



2727 NORTH CENTRAL AVENUE - SUITE 414 - PHOENIX 4, ARIZONA -- PHONE 264-5217

June 28, 1963

Mr. Earl Ludewick
Executive Secretary
State of Arizona Oil & Gas Conservation
1624 W. Adams, Suite 202
Phoenix 7, Arizona

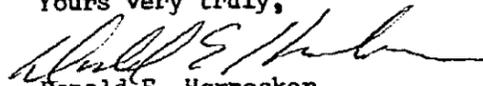
Re: Ram-Hortenstine #1-9 Well

Dear Mr. Ludewick:

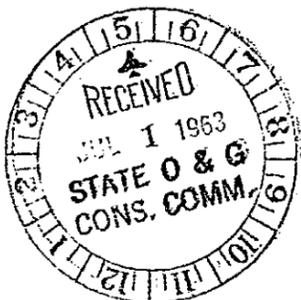
In respect to the above, we would advise you that we are undergoing further tests on this well and it may be necessary to reset the production packer. Upon receipt of completion reports, will file same with your Department without delay.

We would like to ask for an extension of time for reworking this well.

Yours very truly,


Donald E. Hornecker
Secretary-Treasurer

DEH:lb





January 25, 1963

Oil and Gas Conservation Commission
State of Arizona, Room 202
162 1/2 W. Adams
Phoenix 7, Arizona

Re: RAM OIL COMPANY - State #1;
Hortenstine #1-9; and Hortenstine
#1-5 - All in Apache Co., Arizona

Attention: Mr. W.A. Ludewick, Executive Secretary

Dear Mr. Ludewick:

We have temporarily ceased drilling operation on State #1, until we can have a Temperature Survey run on this well. We do intend to resume operations on this well in the near future.

Hortenstine #1-9:

We attempted to frac two zones on this well, but the bottom zone did not frac. Before filing a completion on this well we intend to re-frac the lower zone and attempt a dual producer. I might add at this time we do have a good producer in the upper zone with a Helium content of 10%.

Hortenstine #1-5:

We have pipe set in this hole and are prepared to frac. Our plans are to frac and complete this well at the same time we refrac #1-9.

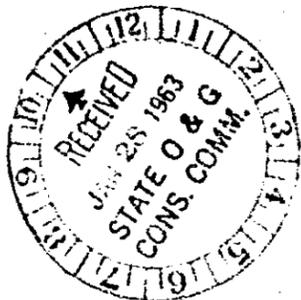
Hoping this gives you the information you need at this time or until we can complete our present plans.

I would like to take the liberty at this time to congratulate you on your appointment to office with the Commission. Please rest assured that RAM OIL COMPANY will give you all of the support in our power to help you in any way we can. We feel that you and people like you will enhance the future of our industry in our state. Again let us extend our congratulations and welcome.

Yours very truly,

Donald E. Hornecker
Secretary-Treasurer
RAM OIL COMPANY

DEH:lb



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January 18, 1963

Ram Oil Company
2727 North Central Avenue
Phoenix, Arizona

Attention: Mr. D. E. Hornecker, Secretary-Treasurer

Re: Ram Oil Company - State #1; Hortenstine #1; and
Hortenstine #1-5 - All in Apache County, Arizona

Gentlemen:

The files of this commission do not reflect that we have received completion reports on either of the three captioned wells which we understand have been drilled.

We will appreciate receiving these reports at an early date, to comply with the rules of the commission and to complete our files.

Yours very truly,

N. A. Ludwick
Executive Secretary

NAL:hms



RAM
OIL COMPANY

3318 NORTH TWENTY-FOURTH STREET - PHOENIX 16, ARIZONA - PHONE AREA 5-5871

May 16, 1962

Mr. Dominic Jerome
Oil & Gas Commission
3500 N. Central
Phoenix, Arizona

Dear Mr. Jerome:

In regards to our operations on Section 9, T19N-R26E, our fracturing operations are not complete at this time, and it is our plan to fracture two more perforations at the time this service is required on Section 5, T19N-R26E.

Our schedule calls for application for a drilling permit in Section 5 as soon as the necessary lease papers are complete. My opinion is, this will be on or before June 1, 1962.

If the timing proceeds as expected we hope to complete Section 9 as a producer sometime before June 15, 1962.

Sincerely,

Larry W. Vernon
General Manager

Larry Vernon
LV:wc

178

March 5, 1962

Mr. R. Keith Walden
P. O. Box 1271
Tucson, Arizona

Re: Ram Oil Company Hortenstine #1 in Sec. 9,
T 19 N, R 26 E, Apache County

Dear Keith:

Enclosed is an application to drill from the Ram Oil Company on the above described test. If you will sign and approve this application and return it to us at your first opportunity, we will appreciate it.

You will note that they have a blanket bond filed with us in this office and they have paid their \$25.00 drilling fee.

Yours very truly,

D. A. Jerome
Executive Secretary

encs 2