

~~CONFIDENTIAL~~
~~March 28 1978~~
~~Robert D. King~~



P-M

Pan American #1 Navajo-AB 422
NW SE 32-7N-7W NSM Apache County

sl

COUNTY Apache AREA Lukachukai LEASE NO. Nav. 14-20-0603-724

WELL NAME Pan AM #1 Navajo ~~Table~~ -AB

LOCATION NW SE SEC 32 TWP 7N RANGE 7W NSM FOOTAGE 1800 FSL 1900 FEL

ELEV 7299 GR 7312 KB SPUD DATE 8-31-67 STATUS TOTAL DEPTH 3020'
COMP. DATE 9-28-67

CONTRACTOR Loffland Brothers

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
13 3/8	40	75 SK	NA	<input checked="" type="checkbox"/>
9 5/8	508	235 SK		<input type="checkbox"/>
7 5/8	2390	100 SK		<input type="checkbox"/>

DRILLED BY CABLE TOOL
PRODUCTIVE RESERVOIR
INITIAL PRODUCTION P&A

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Shinarump	212'		<input checked="" type="checkbox"/>	
DeChelly	400'			
Permian Supai	1180'			
Hermosa	2030'			
Mississippian	2360'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Comp. Formation Density, IE, Sidewall N. Porosity	NA	NA	SAMPLE DESCRP. <input checked="" type="checkbox"/> SAMPLE NO. <u>1641</u> CORE ANALYSIS <input type="checkbox"/> DSTs <input checked="" type="checkbox"/>

REMARKS	APP. TO PLUG
	<input checked="" type="checkbox"/>
	PLUGGING REP. <input checked="" type="checkbox"/>
	COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY _____

BOND CO. Seaboard Surety Co. BOND NO. _____

BOND AMT. \$ 25,000 CANCELLED _____ DATE _____ ORGANIZATION REPORT 6-16-67

FILING RECEIPT 2847 LOC. PLAT WELL BOOK PLAT BOOK

API NO. 02-001-20052 DATE ISSUED 8-29-67 DEDICATION W/2 SE/4

PERMIT NUMBER 428

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(over)

Release Date _____

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: **PAN AMERICAN PETROLEUM CORPORATION** Address: **501 Airport Drive, Farmington, New Mexico**

Federal, State or Indian Lease Number or name of lessor if fee lease: **14-20-0603-724 Navajo Tribal "AB"** Well Number: **1** Field & Reservoir: **87401**

Location: **1800' FSL and 1900' FEL** County: **Apache**

Sec. TWP-Range or Block & Survey: **Section 32, T-7-N, R-7-W, NSM**

Date spudded: **8-31-67** Date total depth reached: **9-19-67** Date completed, ready to produce: **GR 7299', RDB 7312 feet** Elevation (DF, RKB, RT or Gr.): **GR 7299', RDB 7312 feet** Elevation of casing hd. flange: **feet**

Total depth: **3020'** P.B.T.D.: **Single, dual or triple completion?** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: **0 - 3020'** Rotary tools used (interval): **0 - 3020'** Cable tools used (interval):

Was this well directionally drilled? **No** Was directional survey made? **No** Was copy of directional survey filed? Date filed:

Type of electrical or other logs run (check logs filed with the commission): **IES, FDC, Sonic; GR-Neutron** Date filed: **9-29-67**

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
	12-1/4"	9-5/8"	36	508'	235	None
	8-3/4"	7-5/8"	26.4	2390	100	1781

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

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INITIAL PRODUCTION

Date of first production: 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 **Area Engineer** of the **PAN AMERICAN PETROLEUM CORPORATION** (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: **January 16, 1968**

Signature: *[Handwritten Signature]*



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log

Permit No. **428**

Form No. 4 File One Copy

DETAIL OF FORMATIONS PENETRATED *

Formation	Top	Bottom	Description*
Shinarump	212'		DST No. 1 2380-2570'. Shut in 1 hour. Tool open 2 hours. Good blow immediately and fair blow throughout. Recovered 290' water. Flow rate on 1/4" choke, 54 MCFPD and on 1/2" choke 164 MCFPD, 5/8" choke 150 MCFPD and declining to 130 MCFPD. Gas non flammable. Initial shut in 170 psi, final shut in 1 hour 172 psi.
DeChelly	400'		
Permian Supai	1180'		
Hermosa	2030'		
Mississippian	2360'		

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* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.
 This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

This well was plugged and abandoned on September 28, 1967 as follows:

1. Set retainer at 2375' and cemented below retainer with 75 sacks.
2. Cut 7-5/8" casing at 1781'.
3. Spotted 50 sacks cement plug across 7-5/8" casing stub.
4. Spotted 50 sacks cement plug across 9-5/8" casing shoe.
5. Spotted 25 sacks cement plug at surface.
6. Erected abandonment marker and cleaned up location.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. CESVR. Other _____

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface **1800' FSL and 1900' FSL, Section 32, T-7-N, R-7-W, NEM**

At top prod. interval reported below **None**

At total depth **None**

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-724

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tribal "A"

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA
Section 32, T-7-N, R-7-W, NEM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED **8-31-67** 16. DATE T.D. REACHED **9-19-67** 17. DATE COMPL. (Ready to prod.) **9-28-67** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **GL 7299', RDB 7312'** 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD **3020'** 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL. HOW MANY* _____ 23. INTERVALS DRILLED BY ROTARY TOOLS **D-3020'** CABLE TOOLS **None**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* _____ 25. WAS DIRECTIONAL SURVEY MADE **No**

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26. TYPE ELECTRIC AND OTHER LOGS RUN **I-ES, FDC, Sonic, GR-Neutron** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	508'	12-1/4"	235 sacks	None
7-5/8"	26.4	2390'	8-3/4"	100 sacks	1781'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PAVING SET (MD)

31. PERFORATION RECORD (Interval, size and number) **None**

32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) **Permanently abandoned**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
							9-28-67

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED G. W. Eaton, Jr. TITLE **Area Engineer** DATE **September 29, 1967**

*(See Instructions and Spaces for Additional Data on Reverse Side)

4A28



INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 28, below regarding separate reports for separate completions, sample and core analysis, all types electric, etc., formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 36.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Shinarump	212'		
DeChelly	400'		
Permian Supal	1180'		
Barnoon	2030'		
Mississippian	2360'		

NAME	TOP	
	MEAS. DEPTH	FEET DEPTH

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL GAS WELL OTHER **Wildcat**

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
301 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1800' FSL & 1900' FSL

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DP, RT, GR, etc.)
SL 7299', 200 7312'

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-724

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Navajo Tribal 'A'

9. WELL NO. _____

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 32, T-7-N, R-7-W, 200

12. COUNTY OR PARISH **Apache** 13. STATE **Arizona**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

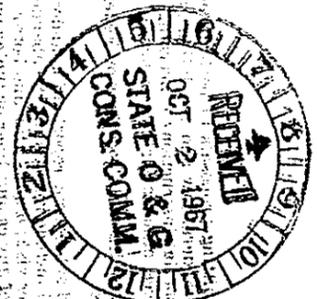
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was plugged and abandoned on September 28, 1967, as follows:

1. Set retainer at 2375' and cemented below retainer with 75 sacks.
2. Cut 7-5/8" casing at 1781'.
3. Spotted 50 sacks cement plug across 7-5/8" casing stub.
4. Spotted 30 sacks cement plug across 9-5/8" casing stub.
5. Spotted 25 sacks cement plug at surface.
6. Erected abandonment marker and cleaned up location.



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18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE **Area Engineer** DATE **September 29, 1967**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-724
2. NAME OF OPERATOR PAN AMERICAN PETROLEUM CORPORATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1800' FSL & 1900' FEL	8. FARM OR LEASE NAME Navajo Tribal "AB"
14. PERMIT NO. 428	9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GL 7299', RDB 7312'	10. FIELD AND POOL, OR WILDCAT Wildcat
	11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Section 32, T-7-N, R-7-W, NEM
	12. COUNTY OR PARISH Apache
	13. STATE Arizona

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well failed to encounter commercial quantities of oil or gas, therefore, we propose to plug and abandon as follows:

**TD 3020'; PDB 2570'.
9-5/8" CSA 508', cement circulated.
7-5/8" CSA 2390'. Estimate top cement 1400'.**

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1. Set retainer at 2375' in 7-5/8" casing. Cement open hole with 75 sacks.
2. Run free point and pull 7-5/8" casing to free point.
3. Spot 50 sacks cement across 7-5/8" casing stub.
4. Spot 50 sacks cement across 9-5/8" casing shoe.
5. Spot 25 sacks cement at surface.
6. Erect abandonment marker and clean up location.
7. If unable to pull 7-5/8" casing, only open hole plug and surface plug will be set.

Procedure verbally approved John Ward to G. W. Eaton, Jr., September 27, 1967.
Procedure verbally approved John Hamister to G. W. Eaton, Jr., September 27, 1967.

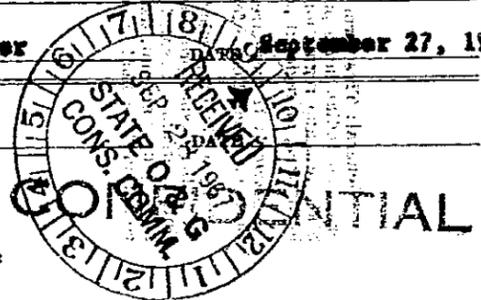
18. I hereby certify that the foregoing is true and correct

SIGNED G. W. Eaton, Jr. TITLE Area Engineer DATE September 27, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



9-27-67, 10:00 a.m.

Telcon, George Eaton, Pan American Petroleum Co.

Re: Pan Am #1 Navajo AB
Permit 428

Were able to log only to 2930 Feet due to cavein.

Lost circulation encountered at 2400 feet.

Formation tops:

Shinarump	212
DeChelly	400
Supai	1180
Hermosa	2030
Mississ	2360

No tops below that due to no return of samples.

TD 3020 feet. PBTD for testing 2570 feet.

Casing: 9-5/8" to 508'
7-5/8" to 2390'
7" to about 2375

Will set retainer at bottom of 7" casing and will run cement up into 7-5/8". Will pull all 7" inch casing they can. Interval between 7" casing and 9-5/8" will be filled with cement. Water zone at 1900, but when casing is pulled will be completely shut off.

U.S.G.S. has approved plugging program.

Verbal permission given to plug. Logs, samples, reports, will be filed.

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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO. **14-29-0603-724**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME **Navajo**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **Navajo Tribal "A"**

9. WELL NO. **1**

10. FIELD AND POOL, OR WILDCAT **Wildcat**

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA **Section 33, T-7-N, R-7-E**

12. COUNTY OR PARISH **Apache**

13. STATE **Arizona**

14. PERMIT NO.

15. ELEVATIONS (Show whether DT, RT, GR, etc.) **OL 7395', RDB 7312'**

1. OIL WELL GAS WELL OTHER **Wildcat**

2. NAME OF OPERATOR **PAN AMERICAN PETROLEUM CORPORATION**

3. ADDRESS OF OPERATOR **501 Airport Drive, Farmington, New Mexico 87401**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface **1800' FWL and 1900' FWL**

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENTS <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Setting Casing	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

August 31, 1967, 13-3/8" conductor casing was set at 40' and cemented with 75 sacks cement and circulated.

September 1, 1967, 9-5/8" surface casing set at 500' and cemented with 235 sacks cement and circulated.



18. I hereby certify that the foregoing is true and correct

SIGNED G. W. Eaton, Jr. TITLE Area Engineer DATE September 6, 1967

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER **Wildcat** SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Pan American Petroleum Corporation

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface **1800' E8L & 1900' E8L, Section 32, T-7-N, R-7-W, N2M**
 At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Luskahubi - 12 miles northeast

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1800'

16. NO. OF ACRES IN LEASE
640

17. NO. OF ACRES ASSIGNED TO THIS WELL
60

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
First Well On Lease 3200'

20. ROTARY OR CABLE TOOLS
Rotary

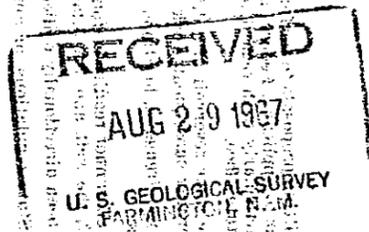
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Furnish later

22. APPROX. DATE WORK WILL START*
August 25, 1967

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	45#	40'	50 sacks
12-1/4"	9-5/8"	32.3#	500'	200 sacks
8-3/4"	7"	17#	3200'	300 sacks

Location Plat attached.



Verbally approved John Ward to G. W. Eaton August 24, 1967.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. ORIGINAL SIGNED BY
 SIGNED G. W. Eaton, Jr. TITLE Area Engineer
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
 SEP 5 1967 August 25, 1967
 FARMINGTON, N.M.

*See Instructions On Reverse Side

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APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR **Pan American Petroleum Corporation** DATE **August 25, 1967**

501 Airport Drive, **Farmington,** **New Mexico 87401**
Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease Navajo Tribal "AB" 14-20-0603-72A	Well number 1	Elevation (ground) Furnish later
Well location (give footage from section lines) 1800' FSL and 1900' FEL, Section 32, T-7-N, R-7-W, NSM	Section—township—range or block & survey W12SE14 dedicated	
Field & reservoir (if wildcat, so state) Wildcat	County Apache	
Distance, in miles, and direction from nearest town or post office Lukachukai - 12 miles northeast		
Nearest distance from proposed location to property or lease line: 1800' feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: First well on lease feet	
Proposed depth: 3200'	Rotary or cable tools Rotary	Approx. date work will start August 25, 1967
Number of acres in lease: 640	Number of wells on lease, including this well, completed in or drilling to this reservoir: one	

If lease, purchased with one or more wells drilled, from whom purchased: Name Address
Not applicable

Status of bond
Statewide

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)

\$25.00 permit fee paid to Arizona Oil and Gas Conservation Commission on August 25, 1967 on Draft No. 31114.

CONFIDENTIAL

Release Date _____

* Fill in Proposed Casing Program on other side



CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Area Engineer** of the **PAN AMERICAN PETROLEUM CORPORATION** (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 **August 25, 1967** Signature *Sweeten Jr.*

Permit Number: **428**
Approval Date: **8-29-67**
Approved By: *John Bannister*
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
10 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
Effective Feb. 28, 1962.

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.

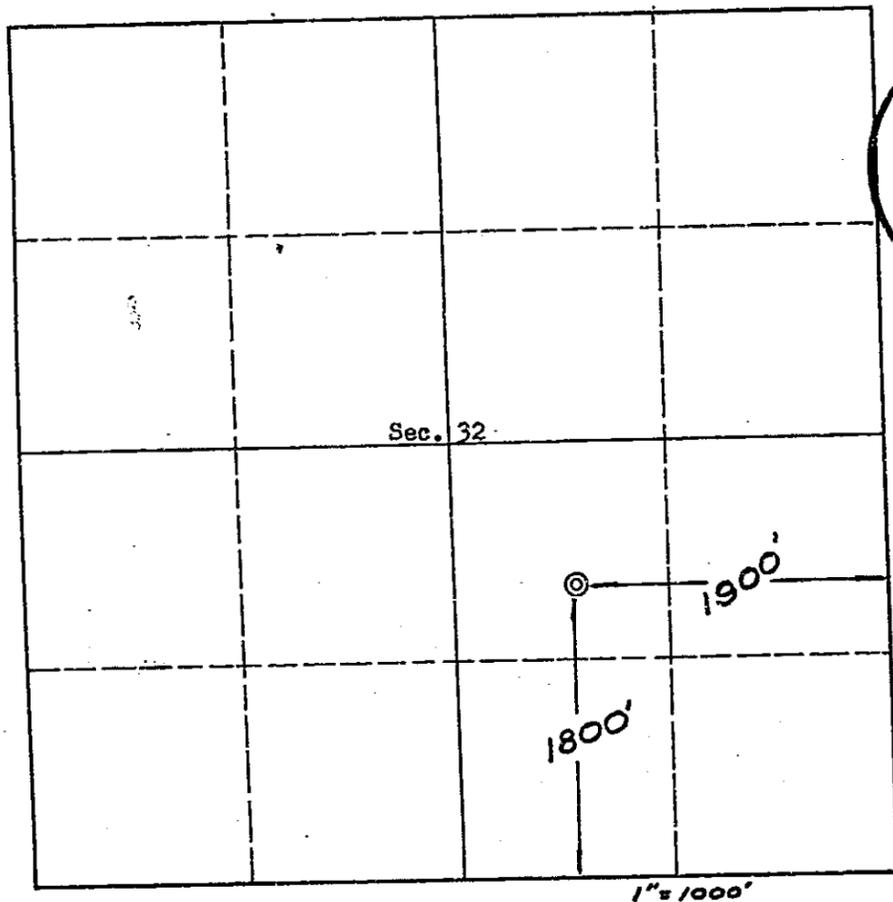
Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

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
13-3/8"	48#	H-40	Surf.	40'	Surf. - 40'	50
9-5/8"	32.3#	H-40	Surf.	500'	Surf. - 500'	200
7"	17#	H-40	Surf.	3200'	2000' - 3200'	300

Company Pan American Petroleum Corporation
 Well Name & No. Navajo Tribal "AB" No. 1
 Location 1800 feet from the South line and 1900 feet from the East line.
 Sec. 32, T. 7 N., R. 7 W., Navajo Special Meridian, Apache County, Arizona
 Ground Elevation Report Later



RECEIVED
 AUG 30 1967
 OIL CON. COM.
 DIST. 3

Surveyed August 24, 1967

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

REGISTERED SURVEYOR
 CERTIFICATE EXPIRES
 Seal
 ERNEST V.
 ECHOHAWK
 DEC. 31, 1967
 ARIZONA, U.S.A.

Ernest V. Echohawk
 Ernest V. Echohawk
 Registered Land Surveyor
 Arizona Reg. No. 2311

RECEIVED
 SEP 6 1967
 STATE O. & G.
 CONS. COMM.



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: PAN AMERICAN PETROLEUM CORP.
(OPERATOR)

to drill a well to be known as

#1 NAVAJO TRIBE "AB"
(WELL NAME)

located 1800' PSL & 1900' PSL (NW/4 SE/4)

Section 32 Township 7N Range 7E W, APACHE County, Arizona.

The W/2 SE/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 29th day of AUGUST, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Kammister
EXECUTIVE SECRETARY

PERMIT N^o 428

RECEIPT NO. 2847

API 02-001-20052

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

CONFIDENTIAL

Release Date _____

PAN AMERICAN PETROLEUM CORPORATION

501 Airport Drive, Farmington, New Mexico
August 25, 1967

File: E-203-400.1

Subject: Application to Drill
Navajo Tribal "AB" No. 1
Apache County, Arizona Wildcat

Arizona Oil and Gas Conservation Commission
Room 202, 1624 West Adams
Phoenix, Arizona

428

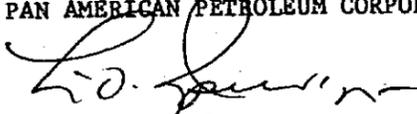
Attention: Mr. John Bannister

Gentlemen:

Attached please find our Application To Drill Navajo Tribal "AB" No. 1 at a location 1800 feet from the South line and 1900 feet from the East line of Section 32, T-7-N, R-7-W, NSM, Apache County, Arizona. This proposed 3200-foot Basement Wildcat is to be drilled as a "tight hole" and we would appreciate your placing all correspondence and other information regarding the well in your confidential file and treating all such information received in a confidential manner.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION



L. O. Speer, Jr.
Area Superintendent

GWE:en

Attach.

*Seaboard Surety Co No No. shown
25,000
11-2-65*



Dedication

428

Friday Aug. 25, 1967

Telephone: George Esten (Pan Am in Farmington)

Verbal Approval given to drill wildcat

1800' FSL, 1900' FEL Sec. 32-7N-7W; Apache Co.

Name Pan Am AB #1 Tribal

- 3200' basement test.

- Confidential

- Will build 1000' road (well located on north rim of Canyon Del Muerto)

- Have already been given USGS approval to drill.

- Contractor: Loffland

- Time of essence: want to drill before Sept. 26th, which is date set for next 7 page sale. Will not take time to test on core.

- Will rent mud logging unit from Bud Underwood which will be operated by Pan Am geologist... for security reasons well super-confidential. Big question in here is geologic stratigraphic section.

428
Csg: 40' - 13 3/8"

500' - 9 5/8"

3200' - 7"

J. B. Underwood