

UTE MOUNTAIN TRIBAL "K" NO. 1
UTE DOME PARADOX FIELD
OPERATIONS REPORT

Service unit was rigged up and BOP installed March 27, 1973. 1-1/2" and 2-1/16" tubing was pulled. The Model "FA" packer was milled out and a retrievable bridge plug and packer run and swab testing started. Interval 9150-9225' was swabbed 41 hours and would not swab dry or kick off. Interval 8880-8908' and 9058-9106' was swabbed 30 hours and would not kick off. Interval 8548-8590' was swabbed 60 hours and would flow a few minutes and die. Unable to swab fluid level below 7000'. Operations were delayed by impassible roads for several days.

On April 11, 1973, 25 sacks of Class "C" cement was spotted from 9256' to 9006'. 10 sacks of cement was spotted from 8930' to 8830'. A cement retainer was set at 8339' and 75 sacks of cement squeezed through the retainer. A correlation log was run and Paradox Formation intervals 8226-40' and 8120-38' perforated with 2 SPF. Each zone was selectively acidized with 2,000 gallons of 28% HCl and swab tested. The zone made a small amount of gas.

On April 15, 1973 intervals 8226-40' and 8120-38' were fraced with Dowell's 5-40 Duofrac. Used total 27,500 pounds of 20-40 sand. Swab tested and unable to get well to kick off after swabbing 1346 barrels of water. Ran Baker cement retainer and unable to set retainer at 8056'. Pushed retainer to 8262'. Ran and set cement retainer at 8060'. Squeezed perfs 8226-40' and 8120-38' with 75 sacks of cement. Spotted 10 sack plug from 6170' to 6070'.

Attempted to cut 5-1/2" casing at 4690'. Casing would not come loose. Cut casing at 4625' and casing would not come loose. Ran free point and found casing stuck at 3000'. Perforated two holes at 3500' and circulated hole clean. Cut casing at 3495', pulled, and laid down. Spotted 45 sacks of cement at 3495'. Set Baker 8-5/8" bridge plug at 3440'.

On April 26, 1973, the Dakota Formation was logged with a Compensated Neutron log. Dakota interval 3370-80' was perforated with 2 SPF and acidized with 500 gallons of 15% mud acid. Swab test recovered no show of oil or gas. Set cement retainer at 3355'. Squeezed 3370-80' with 100 sacks of cement. Pressure tested to 2500 psig and OK. Perforated 3304-08' with 2 SPF and acidized with 500 gallons of 15% mud acid. Swab test recovered no show of gas or oil. Set retainer at 3280' and squeezed 3304-08' with 100 sacks cement. Perforated intervals 3199-3207' to 3234-38' with 2 SPF and acidized with 500 gallons of 15% mud acid. Swab test showed very little fluid entry. Fraced with 15,700 gallons of treated water (1% KCl and 10 pounds Gel per 1000 gallons) and 5,000 pounds 20-40 sand and 10,000 pounds of 10-20 sand. Swab tested and recovered no show of oil or gas.

On May 3, 1973, proposed to abandon well.

File

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. RESVR. ☐	Other ☐								
2. NAME OF OPERATOR Pan American Petroleum Corporation															
3. ADDRESS OF OPERATOR Security Life Building, Denver, Colorado															
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 790 FSL, 790 FEL, Sec. 33 SE SE At top prod. interval reported below At total depth															
14. PERMIT NO.				DATE ISSUED											
15. DATE SPUNDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD							
2-23-66		4-15-66		5-17-66		6700 RDB, 6686 GR									
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY		24. WAS DIRECTIONAL SURVEY MADE							
9308		9266				Surface-9308		No							
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 8548-90, 8880-8908, 9058-9106, 9150-9225 Pennsylvania								25. WAS WELL CORED No							
26. TYPE ELECTRIC AND OTHER LOGS RUN IES, GRS								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					
13 3/8"		48#		413		17 1/2"		400 Sx		None					
8 5/8"		24#, 32#		4750		11"		1000 Sx		None					
5 1/2"		14, 15.5, 17		9308		7 7/8"		500 Sx - 1st stage							
								550 Sx - 2nd stage							
(Stage tool at 7469)															
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
										2 1/16"		9230		8490	
31. PERFORATION RECORD (Interval, size and number) 8548-90, 8880-8908, 9058-9106, 9150-9225 with 1 shot/ft.										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
										DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
										9150-9225		500 gal 15% 4500 gal ret. acid			
										9058-9106		500 gal 15% 2500 gal ret. acid			
										8880-8908		500 gal 15% 1000 gal ret. acid			
										8548-8590		500 gal 15% 3500 gal ret. acid			
33.* PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)							
5-17-66		Flowing						Shut In							
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO	
5-24-66		3		3/4											
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.		OIL GRAVITY-API (CORR.)			
436		Packer in hole						5238							
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY					
To be Sold to El Paso Natural Gas Co.															
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		D. J. Tolletson						TITLE Administrative Assistant		DATE May 27, 1966					

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

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 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, 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 35.

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 33. 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.)

Ute Mountain Tribal "K"

334. 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
DST #1 - 3167-3210.	Misrun.	Failed to reach bottom with tool		Log Tops		
DST #2 - 3167-3210.	Tool open 5 Min.	SI 120 min.	Tool open 180 Min. SI 45 Min	Greenhorn	3031	
Good blow air and died in 180 Min. Recovered 1170' drilling mud. No show. No water. IBHPF 298. FBHPF 344, ISIBHP 1314. FBHP 364-626, FSIBHP 1042.				Dakota	3165	
BHT 90°F.				Morrison	3385	
DST #3 3265-3380. Tool open 5 Min. SI 60 Min.				Entrada	4380	
Good blow air decreasing to weak blow. Rec. 44' mud, 740' water cut mud and water 8.2-8.5 and 252' Muddy Salt Water. IFFP 130. ISIP 781, IFFP 130, FFP 508				Chinle	4880	
FSIP 781.				Moenkopi	5630	
DST #4 - 8515-8611. Tool open 8 Min. SI 30 Min.				Upper Hermosa	7515	
Good blow air immediately. Gas to surface in 11 min. Gas blow steady throughout				Paradox "A"	8372	
Tested 2' flame on 2" pipe. Recovered 160' drilling mud, 30 gas cut mud, 130'				Ismay	8510	
slightly gas cut mud and no water. ISIP 571. IF 44, FF 88, FSIP 791. BHT 182°F				Desert Creek	8731	
DST #5 8965-9001. Incomplete due to tool or packer failure. Tool opened 5 Min.				Akah	8871	
SI 30 Min. Tool opened 145 Min. SI 30 Min. weak blow air first 5 Min with good				Bonker Creek	9032	
strong blow air after second tool opening and continued throughout. No gas. Fluid in annulus held OK 105 Min. and began				Lower Hermosa	9150	
to fall slowly and increase as annulus was filled. Pumped 57 Bbls mud in annulus. Recovered 3850 ft or 54.7 Bbls mud						
with no show. Hydrostatic in and out 4560. BHPSI 568, IBHPF 9. No final BHPP or BHPSI due to leak BHT 182°F						

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U.S. MOUNTAIN TRIBAL "K" #1

LOG

38. GEOLOGIC MARKERS			
39. 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			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST #6 - 9141-9225. Tool open 3 Min, SI 30 Min. Gas to surface 4 Min with flow pressure 200 PSI initially and increased to 300 PSI immediately with slow increase to 345 PSI Gauged 4200 MCFD. Gas burned for 2 Min, then would not burn for remainder of test. No fluid to surface and reversed out no fluid. IBHPSI 3372. IBHPF 1228. FBHPF 1401. FBHPSI 3372. BHT 187°F. Supplementary Well History Spud 2-23-66. Drilled to 413. Set 13 3/8" 48# casing at 413 with 400 sacks type "C" with 2% Cacl. Drilled to 4750. Cemented 8 5/8" 24#, 32# casing at 4750 with 1000 sacks Type "C" with 6% gel with 1 lb. Tuf Plug per sack. Drilled to 9308. Set 5 1/2" 14#, 15.5# and 17# casing at 9308. With stage tool at 7469. Cemented first stage with 400 sacks class "C" with 4% gel with 1 1/2 lbs. Tuf plug per sack with 4% HR-4 retarder, followed with 100 sacks "C" with 4% HR-4. Cemented second stage with 500 sacks "C" with 4% gel and 1 1/2 lb Tuf Plug per sack followed by 50 sacks "C" Neat. Drilled out and cleaned out to PBD 9266. Perforated 8548-90, 8880-8908, 9058-9106, 9150-9225 with 1 shot/ft. Acidized perforations 9150-9225 with 500 gal 15% acid followed by 4,500 gal retarded acid. No breakdown pressure. Injection rate 5 Bbls/Min at 2000. Set Bridge plug at 9129 with packer at 9020. Acidized perforations 9058-9106 with 500 gal 15% regular acid and 2500 gal retarded acid. Breakdown pressure 3400. Injection rate 4 Bbls/Min at 3100. Reset bridge plug at 9030 and packer at 8844. Acidized perfs 8880-8908 with 500 gal regular 15% acid and 1000 gal retarded acid. Breakdown pressure 5000. Injection rate 3 1/2 Bbls/Min at 3500 psi. Set bridge plug at 8795 and packer at 8518. Acidized perf. 8548-8590 with 500 gal regular 15% acid and 3500 gal retarded acid. No Breakdown. Injection rate 2 3/4 Bbls/Min at 3000 psi. Removed bridge plug. Flowed well to clean out. Set packer at 8490. On 5-24-66 well flowed at the rate of 5238 MCFD on 3/4" ch			
TYPE 436.			