



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mar 1 : 1994

Street in a die management ARPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 30-045-29156-Type of Working 3 5. Lease Number DRILL I-22-IND-2772 Type of Well 6. If Indian, All. or Tribe 1b. Ute Mt. Ute GAS 2. Operator 7. Unit Agreement Name OIL COM. DIV. 3. Address & Phone No. of Operator 8. Farm or Lease Name 76/8 Ute PO Box 4289, Farmington, NM 87499 9. Well Number (505) 326-9700 24 10. Field, Pool, Wildcat 4. Location of Well > Barker Creek Alkali Gulch 1595' FNL, 1250' FWL 11. Sec., Twn, Rge, Mer. Latitude 36° 58' 32", Longitude 108° 20' 08" Sec 20, T-32-N, R-14-W NMPM 14. Distance in Miles from Nearest Town 12. County 13. State 10 miles to LaPlata San Juan NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1250' 17. Acres Assigned to Well 16. Acres in Lease 640 Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 18. NO EBIO DIE 19. **Proposed Depth** 20. Rotary or Cable Tools 9450'-TVD 9944' MD Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 6194'GR 2nd quarter 1994 23. **Proposed Casing and Cementing Program** See Operations Plan attached 24. Authorized by: Drilling Engineer PERMIT NO. APPROVAL DATE DATE 5/6/94 APPROVED BY TITLE /The

Archaeological Report to be submitted by LaPlata Archaeology Threatened and Endangered Species Report to be submitted NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

OPERATOR'S COPY

Hold c-104 For NSL 3

Same Land - 4 Guilles -

State of New Mexico: Energy, Minutes and Natural Resources Department

Form C-182: Reviews 1-1-89 *

DISTRICT!
P.O. Box 1980, Hobbs, NM 52240

OIL CONSERVATION DIVISION P.O. Box 2088 Sama Fe. New Mexico 87504-2088

DISTRICT II 7.O. Down OD, Anna, NM 88210

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OPERATIONS PLAN

Well Name: Ute #24

Location: 1595'FNL, 1250'FWL Section 20, T-32-N, R-14-W

San Juan County, New Mexico

Formation: Barker Creek Alkali Gulch

Elevation: 6194'GR

Formation:	Top	Bottom	Contents
Formation: Surface Point Lookout Mancos Niobrara Greenhorn Graneros Dakota Morrison Junction Creek Summerville Todilto	Menefee 132' 614' 1720' 2280' 2334' 2404'	132' 614' 1720' 2280' 2334' 2404' 2641' 3200'	fresh water gas fresh water
Todilto Entrada Chinle Shinarump Moenkopi Cutler Hermosa Upper Ismay Lower Ismay Desert Creek Akah Upper Barker Creek	3635' 3738' 4814' 4933'	3738' 4814' 4933' 5202' 6844' 7948' 8014' 8113'	gas (potentially 100-500 ppm H ₂ S) gas (potentially 100-500 ppm H ₂ S) gas (potentially 100-500 ppm H ₂ S)
Lower Barker Creek Total Depth	8538' 8810'	8338	

Logging Program:

Mud logs - 750' to Total Depth
Wireline Logs - DIL/FDC-CNL/BHC/ML - 750' to Total Depth

Mud Program:

17	1/2"	conductor h	hole	-	0	-	200'	-	freshwater	spud	mud
12	1/4"	surface -			120	-	750'	-	freshwater	spud	mud
7	7/8"	production	_		750	-	8810'	-	LSND		

Pressure Control Program:

17 1/2" hole - diversion only

12 1/4" hole - a 3000 psi WP casinghead will be installed on the surface casing. A 5000 psi WP annulus preventer, a 5000 psi WP double gate preventer equipped with blind and pipe rams, and a 5000 psi x 3000 psi WP drilling spool with kill and choke lines will be nippled up on the casinghead.

Operations Plan Ute #24 February 28, 1994

Pressure Control Program (cont'd):

7 7/8" hole - The annulus preventer will be tested to 2500 psi against casing. Pipe and blind rams, choke line, and manifold will be tested at 500 psi and 2500 psi against casing. Casing will be tested to 2500 psi prior to drilling the shoe.

Completion - a 5000 psi WP tubinghead will be installed on the production casing. A 5000 psi WP double gate preventer equipped with blind and pipe rams and a 5000 psi drilling spool equipped with kill and choke lines will be nippled up on the tubinghead. One 7" blooie line will be nippled up above the BOP's. A rotating head will be nippled up on top of the blooie line. Pipe and blind rams, choke line, and manifold will be tested at 500 psi and 4000 psi against casing. Casing will be tested to 4000 psi prior to completing the well.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blow out preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. All tests will be reported on the daily drilling report. Preventers will be tested before drilling casing cement plugs.

In the event that a kick is taken while drilling, the following procedure will be followed:

- 1. Pick up kelly and raise the tool joint above floor.
- 2. Shut down the mud pump.
- 3. Close the annular preventer.
- 4. Record standpipe pressure (SIDPP) after it stabilizes and pit gain.
- 5. Calculate Initial Circulating Pressure = Slow Circulating Pressure + SIDPP.
- 6. Calculate kill mud weight required.
- 7. Complete kill sheet.
- 8. Decide whether to raise mud weight or drill under-balanced.

BOP Configuration:

17 1/2" conductor hole - 0' - 200' - not applicable

5000 psi system

12 1/4" surface hole - 120' - 750' - Figures #1 & #3

5000 psi system

7 7/8" production hole - 750' - 8810' - Figures #2 & #3

Operations Plan Ute #24 February 21, 1994

Casing Program: (all casing will be new)

Hcle	Size	Depth Interval	Csg.Size	Wt.	Grade
$\frac{17}{17}$	1/2"	0' - 200'	13 3/8"	48.0#	K-55 ST&C
12	1/4"	0' - 750'	8 5/8"	24.0#	K-55 LT&C
7	7/8"	0' - 8810'	5 1/2"	17.0#	N-80 LT&C

Float Equipment:

Conductor casing - guide shoe, centralizers every joint. Surface casing - guide shoe, float collar, centralizers every 4th joint. Production casing - float shoe, baffle, stage tools @ 2800' and 7800', centralizers every 4th joint.

Wellhead Equipment (sour gas service):

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11" 3000 psi x 13 3/8" S. O. W. casinghead
11" 3000 psi x 9" 5000 psi tubinghead
9" 5000 psi x 3 1/8" 5000 psi adapter
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Tree assembly for single completion gas service.

Cementing:

17 1/2" conductor - cement with 353 sx Class "B" w/2% calcium chloride (15.6#/gal. weight; 417 cu.ft. of slurry), 200% excess circulated to surface.

12 1/4" surface - cement with 283 sx Class "B" 65/35 Pozmix with 1/4# flocele/sx, 6% gel and 2% calcium chloride (12.4#/gal. weight) 232 cu.ft. of slurry). Tail with 100 sx Class "B" neat with 1/4# flocele/sx and 2% calcium chloride (15.6#/gal. weight; 118 cu.ft. of slurry), 100% excess circulated to surface.

7 7/8' production -

First stage - cement with 300 sx Class "B" with 1% fluid lcss additive and 1/4# flocele/sx (15.8 gal.weight; 350 cu.ft. cf slurry), 100% excess circulated to stage tool @ 7800'.

Second stage - cement with 823 sx Class "B" 65/35 Pozmix w/6% gel, 1/2% fluid loss additive, 1/4# flocele/sx and 2% calcium chloride (12.4#/gal. weight; 1457 cu.ft. of slurry). Tail with 50 sx Class "B" neat with 1% fluid loss additive and 1/4#/sx flocele (15.8#/gal.weight; 59 cu.ft. of slurry), 75% excess circulated to stage tool @ 2800'.

Third stage - cement with 446 sx Class "B" 65/35 Pozmix w/6% gel, 1/2% fluid loss additive, 1/4# flocele/sx and 2% calcium chloride (12.4#/gal. weight; 790 cu.ft. of slurry). Tail with 50 sx Class "B" neat with 1% fluid loss additive and 1/4#/sx flocele (15.8#/gal.weight; 59 cu.ft. of slurry), 75% excess circulated to surface.

NOTE: 4 hour circulation time between stages.

Operations Plan Ute #24 February 10, 1994

Drill Stem Test Program (potential):

Hermosa 6844'

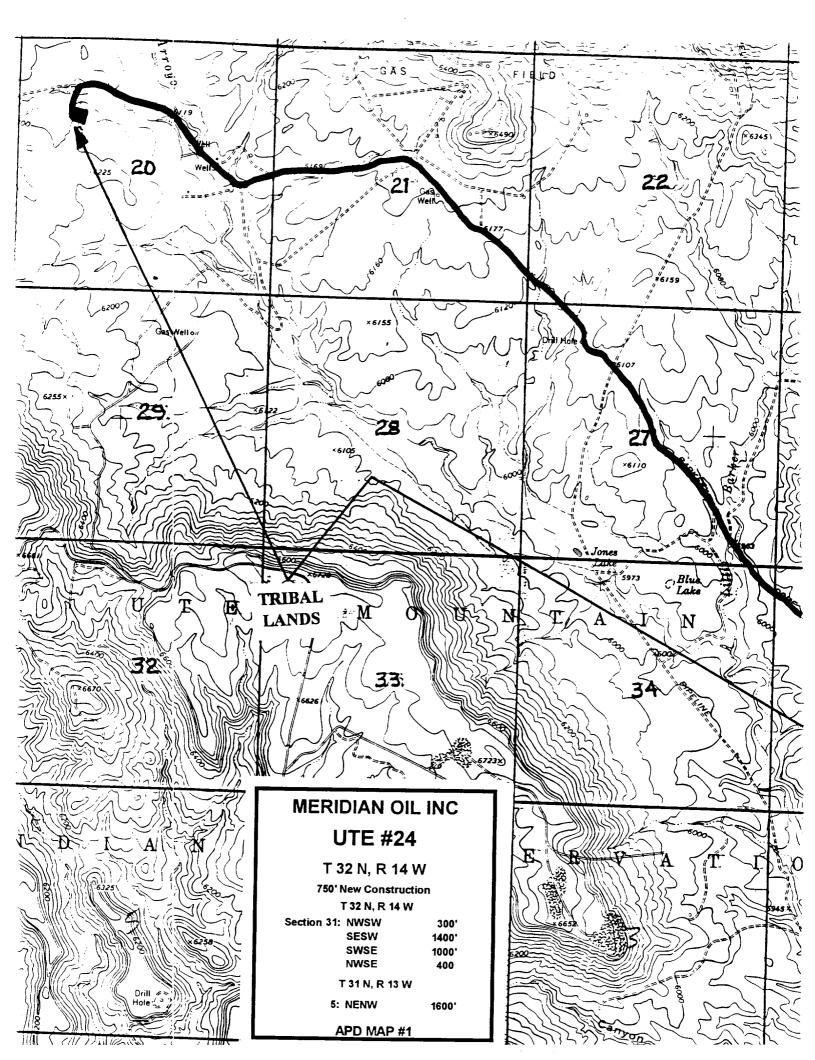
All drill stem tests on Meridian operated wells will be run in compliance with OSHA requirements.

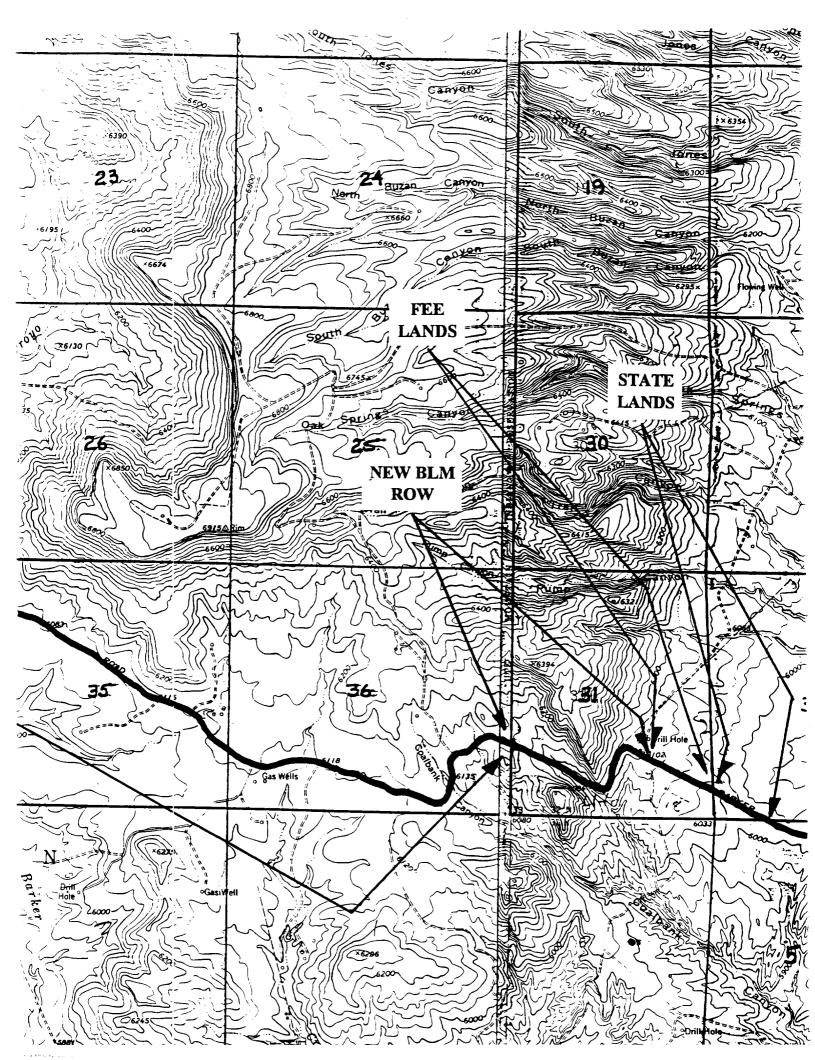
- Hold safety meeting with all personnel prior to DST to explain procedure and safe areas.
- 2. A safety joint, jars, bypass and pump out sub will be included in the test tool assembly. Additionally, one T.I.W. valve will be run 30' from the floor, and one T.I.W. valve will be run 120' from the floor.
- 3. BOP's, kill line, fill-up line, and Test line will be checked for proper working condition prior to going in hole.
- 4. Magna-flux inspection of all DST tools will be required prior to testing.
- 5. Smoking or open fires any place on location will not be permitted during test.
- 6. For all tests, the drill string will be reversed out before pulling out of hole, with the following as a procedural guide:
 - a. Release the packer and pull one stand only. Keep the hole full.
 - b. Drop the bar and open the reversing sub with pumps running. Reverse entire test to test tank.
- 7. All testing and reversing out will be performed during daylight hours only.

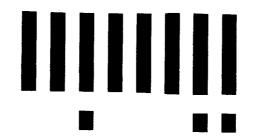
Coring Program:

Desert Creek (8720-8780')

Antic:pated abnormal pressures or temperatures: none











Job separation sheet

14

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15.

20.

24.

26.

SUBMIT IN DUPLICATE.

FOR APPROVED

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(ODET 1770)	UN	ILLED STATE	- 5	(See other in-	Expires: D	ecomber 31, 1991
	DEPARTME	NT OF THE	INTERIOR	tractorie ou	5. LKASE DESIGN	ATION AND SERIAL NO.
	RIPFALL	OF LAND MANAG	EMENT DEC	CIVES	I-22-IND	-2772
						LOTTES OR TRIBS HAME
WELL COM	PI FTION OR	RECOMPLETIC)n report a	ND LOG*	IIta Maun	tain Ute
TYPE OF WELL:				2 1004	7. UNIT AGREEM	
TIPE OF WELL:	WELL	WELL Y DEV	Other AUG	4.3.1334		
TYPE OF COMPL					A PARM OR I	EASE NAME, WELL NO.
WRI.E.	ALER EN EN THE	BECK DENAM	Bureau of La		I.	tall rame, while ho.
NAME OF OPERATOR			Durang	o, Colorado	Ute #24	
Meridian	0il Inc				7. Ari WELLING	
ADDRESS AND T	ELEPHONE NO.					
DO Boy /	280 Farming	ton, NM 87499	(505) 326-9	700	.1	OOL OR WILDCAT
LOCATION OF WELL	(Report location cics	riy and in accordance in	rith any State require	mente) *		ek Alkali Gulch
At surface	1595'FNL, 12				11. BEC., T., R., I	OR BLOCK AND SURVEY
	-	JU FWE	DOCH TO THE			
At top prod. Inter	va: reported below	্ৰা		TL .		
At total depth		•			Sec. 20. T-	-32-N R-14-W
21 10121 5170		14. PERA	LIT NO. D	ATE ISSUED	12. COUNTÝ OR	12. STATE
			1	•	San Juan	NM
DATE SPUDDED	IE DIES ED BEACHE	D 17. DATE COMPL. (A	cedy to pred.) 18.	ELEVATIONS (DF. RKB.	RT. GR. STC.)* 1	9. ELEV. CASING BAD
DATE SPUDGED	ID DATE I.U. ASSCRI	1		6194 GR	ļ ·	
5-31-94	6-22-94	7-30-94	TE MULTIPLE COMPL.	23. INTERVALE	ROTARY TOOLS	CABLE TOOLS
TOTAL DEPTH. MD A	TY) 21. PLUG. BAC	ETION—TOP SOTTOR.	HOW MERKS.	DEILLED ST	0_8810	- 1
8810		12 15 11	THE CONTROL		U-001U	25. WAS DIRECTIONAL
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8057_8116					1 2	. WAS WELL COLED
TYPE BLECTRIC AN	D OTHER LOGS BUN		CON, DIV	* *] -	
ATT. CNL. I	LDT, ML, DSS,	CMI American				Yes
1121, 01.29	<u></u>	CARING RECOR	and all strings	set in writ)		
AMING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIES	POP OF CEMENT. C	EMENTING RECORD	- AMOUNT PULLED
10.0/0	48#	247	17 1/2	360 cu.ft		
13.3/8		742	12 1/4	649 cu.ft	<u> </u>	
8 5/8	24#	742	7 7/8	3998 cu.ft		

4154	TOP (MB)	BOSTON (MB) SACES (EMENT*	RESH (MD)	2 7/8	8157	7.5.5.5
29.		LINER RECORD			30.	TUBING RECORD	PACEER SET (ME)
5 1/2	17#	8809	7.7	7/8	3998 cu.fi		
8 5/8	24#	742	12 1	1/4	649 cu.fi		

ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC. 31. PERPORATION RECORD (Interval, succ 32. ACCEPTED FOR RECORDER INTERVAL (MD) AMOUNT AND KIND OF MATERIAL COM sqzd w/50 sx Class "B" Neat 8360-8449 8360-8449 Squeezed 93

T. PR 9-6-90 8057-8116

San Juan Posource Arec

8000# 100 mesh sd 80,000# 20/4 8057-8116 40# x-link gel 1950 вы

BUTSHING AND ADDRESSON WELL STATUS (Producing or shut-in) 32. DUCTION METHOD (Flowing, gas lift, pumping—ouse and type of pump) DATE FIRST PRODUCTION SI 8-30-94 Flowing UAR-OIL BATIO WATER 011-881 GAS-NCF CHOKE SIZE PROD'N. FOR TEST PERSOD HOURS TESTED 3/4 8-15-94 OIL GRAVITT-API (CORS.) WATER-BEL GAS-MCF. CALCULATED 24-MOUR BATE CASING PRESSURE 15,140 SI 2799 TEST WITHBEED BY 34. DISPOSITION OF GAS (Sold, wood for fuel, vented, etc.)

To be sold 25 LIST OF ATTACHMENTS

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

SIGNED

TITLE Regulatory Affairs

8-25-94

Mesa Verde	Surface 614'	Light gry, med-fine gr ss, carb sh		
			Mesaverde	Surface
Mancos	614' 1694'	Dark gry carb sh.	Mancos	614'
Gallup	1694' 2254'	c carb micac glauc	Niobrara	1694'
•		interbed sh	Greenhorn	2254'
Greenhorn	2254' 2308'		Graneros	2308'
Graneros	2308' 2378'	yrite incl.	Dakota	2378'
Dakota	2378' 2615'	It to dk gry foss carb sl calc sl silty	Morrison	2615'
		ss w/pyrite incl thin sh bands clay & shale breaks Entrada	ks Entrada	3609'
Morrison	2615' 3609'	Interbed grn, brn & red waxy sh & fine to coarse grn ss Cutler	grn ss Cutler	5176'
Entrada SS	3609' 5176'	Orange, fn gr, rdd to sub rdd ss, tight	Ismay	7922'
Cutler	5176' 7922'	Siltstone, orange to red, w/sandstones, orange in grn	n grn Desert Creek 8087'	eek 8087'
Ismay	7922' 8087'	Limestone, fossiliferous in part, shale dk-gray	le dk-gray Barker Creek	8381'
Desert Creek	8087' 8381'	Limestone, fossiliferous in part, shale dk-gray	le dk-gray Alkali Gulch	8611'
Barker Creek	8381' 8611'	Limestone, gray fossiliferous, dolomite lt brn-tan	מנ	
Alkali Gulch	8611' 8810'	Limestone, gray fossiliferous, dolomite lt brn-tan	ut	

:	'	•					
	Cor	Core #1:	86	8047-8075' 8075-8082'	Cut & recovered 28' Cut & recovered 7'		
	Con		8 9		Cut 32', recovered 29.5'		
	_						

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