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· · · · · · · · · · · · · · · · · · ·	DLEUM CORPORATION	I O	~ ~	76-	J.C.		Brannigan ANF Federal #6
3. ADDRESS AND TELEPHONE	a.		2,2		ARTO	<u></u>	9. AT WELL NO. 30-015-30108
At surface	Courth Street, And (Report location clearly 4nd	a in according to a	LAST B	e requireme	505)748	8–1471	10. FIELD AND POOL OF WILDCAT Indian Basin Upper Penn.
1379' FNL a At proposed prod. a	and 259' FEL			DVAL.	WH		11. SEC. T., E. M., OR BLK. AND SURVEY OR AREA
1379' FNL a	and 660' FEL	BY STA	じっと	NX LOCA	TTAN		Section 6, T22S-R24E
	AND DIRECTION FROM NEA						12. COUNTY OR PARISH 13. STATE
15. DISTANCE FROM PRO LOCATION TO NEAR	IST			OF ACRES IN		17. NO. 0	Eddy County New Mexico
PROPERTY OR LEASE (Also to nearest d	LINE, FT. rig. unit line, if any)	660'	66	.0 . 09	• •	TOTH	IIS WELL 160
18. DISTANCE FROM PE TO NEAREST WELL, OR APPLIED FOR, ON	DRILLING, COMPLETED			POSED DEPTH		20. ROTAE Rot	AY OR CABLE TOOLS
	whether DF, RT, GR, etc.)	1	87	700'			22. APPROX. DATE WORK WILL START. ASAP
23.		PROPOSED CASIN	G AND	CEMENTING	EROGRAM		
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THIS WELL REPORT IS	IS TO BE DRILLE ATTACHED.	D AS A DIREC	TION.	Al	PPROV/	l Subj Requi	ECT TO Poster 10 REMENTS AND NL & ANT
IN ABOVE SPACE DESCRI deepen directionally, give per	BE PROPOSED PROGRAM: If tinent data on subsurface location	proposal is to deepen, giv is and measured and true	e data o vertical (n present proju depths. Give blo	Tache	STIPUL proposed r program, if	ATIONS 4-10-98 new productive zone. If proposal is to drill or any.
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(This space for Fed	eral or State office use)						
PERMIT NO.							
Application approval docs CONDITIONS OF APPROVA	not warrant or certify that the app	licant holds legal or equit:	ble title	to those rights in	the subject lea	se which wou	Id entitle the applicant to conduct operations thereon.
(Ö	RIG. SOD.) LES BA	BYAK TILE	<u>A</u> er	11 1 - 51	u aine	RALS	DATE
		*See Instruction	ons O	n Reverse S	bide		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictutious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Code Property Name Mell Number 00EED No. 0.25575 BRANNOAM "ANT" FEDERAL OPERATOR Name SURVEY No. 5 6 Surface Location UL or lot No. 5 225 242 Surface Location 1.379 NORTH NORTH 259 EAST County EDDY UL or lot No. 5 225 242 Ist Ide 1.379 NORTH 259 EAST EDDY UL or lot No. 5 225 242 Ist Ide 1.379 NORTH Peet from the 1.379 NORTH Edd for the 1.000 EAST EDDY UL or lot No. 5 225 242 Ist Ide 1.379 NORTH Peet from the 1.379 NORTH Peet from the 1.379 NORTH EAST EDDY UL or lot No. 320 Ist Ide 1.28 Torently ide 1.08 Torently ide 1.08 Torently ide 1.08 Torently ide 1.08 EAST EDDY OPERATOR CERTIFICATION 1.08 Control 1.08 Section 1.08	API	Number				Pool C	Code Pool Name Indian Basin Upper Penn Associat					ated		
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YATES PETROLEUM CORPORATION BRANNIGAN "ANF" FEDERAL #6 SURFACE: 1379' FNL AND 259' FEL BOTTOM HOLE: 1379'FNL AND 660' FEL Section 6, T19S-R24E Eddy County, New Mexico

H2S Drilling Operations Plan

Personnel employed at the rig site shall receive training in H2S detection, safe drilling procedures and contingency plans. H2S safety equipment shall be installed and functional 3 days or 500 feet prior to encountering known or probable H2S zone at 3200' feet.

Submitted with the APD is a well site diagram showing:

- 1) Drilling rig orientation, location of flare pit.
- 2) Prevailing wind direction.
- 3) Location of access road.

Primary briefing area will be established 150' from wellbore and up wind of prevailing wind direction. Secondary briefing area will be established 180 degrees from primary briefing area.

A H2S warning sign will be posted at the entrance of the location. Depending on conditions, a green, yellow, or red flag will be displayed.

Green - Normal conditions

Yellow - Potential danger

Red - Danger H2S present

Wind indicators will be placed on location at strategic, highly visible areas. H2S monitors (a minimum of three) will be positioned on location for best coverage and response. H2S concentrations of 10 ppm will trigger a flashing light and 20 ppm will trigger an audible siren.

H2S breathing equipment will consist of:

- 1) 30 minute "pressure demand" type working unit for each member of rig crew on location.
- 2) 5 minute escape packs for each crew member.
- 3) Trailer with a "cascade air system: to facilitate working in a H2S environment for time period greater than 30 minutes.

BRANNIGAN "ANF" FEDERAL #6 Page 2

Breathing equipment will be stored in weather proof cases or facilities. They will be inspected and maintained weekly.

The mud system will be designed to minimize or eliminate the escape of H2S at the rig floor. This will be accomplished through the use of proper mud weight, proper ph control of the drilling fluid and the use of H2S scavengers in the drilling fluid. A mud gas separator will be utilized when H2S has is present in the mud.

Drilling experience has shown that wells in developmental areas, (i.e. Dagger Draw, Livingston Ridge Delaware, and Lusk Delaware) are normally pressured and don't experience either H2S kicks or loss of returns. Due to these circumstances, we request exceptions to the rule requiring flare line with remote lighter and choke manifold with minimum of one remote choke. This equipment would be provided on exploratory wells or wells with the known potential for H2S kicks. Additionally, a SO2 monitor would be positioned near the flare line, and a rotating head utilized.

The drill string, casing, tubing, wellhead, blowout preventers and associated lines and valves will be suitable for anticipated H2S encounters.

Radio and or mobile telephone communication will be available on site. Mobile telephone communication will be available in company vehicles.

Drill stem testing to be performed with a minimum number of essential people on location. They will be those necessary to safely conduct the test. If H2S is encountered during a drill stem test, essential personnel will mask up and determine H2S concentration. The recovery will then be reversed to flare pit. Pulling of test tools will be conducted in a safe manner.

Brannigun PG

Scientific Drilling Planning Report

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Scientific Drilling Planning Report

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YATES PETROLEUM CORPORATION Brannigan "ANF" Federal #6 Surface: 1379' FNL & 259' FEL Bottom Hole: 1379' FNL & 660' FEL Sec. 6-T22S-R24E Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	1380′
Glorietta	2600'
Bone Springs	3130′
Wolf Camp	7550'
Canyon	7890'
TD	8700′

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 200' - 300' Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and rated for 3000 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. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	Grade	Coupling	Interval
17 1/2"	13 3/8″	48#	H-40	ST&C	0-350'
12 1/4"	9 5/8″	36#	J-55	ST&C	0-2650'
8 3/4″	7.0"	26#	J-55	LT&C	0-900'
8 3/4"	7.0″	23#	J-55	LT&C	900'-5300'
8 3/4"	7.0″	26#	J-55	LT&C	5300'-7300'
8 3/4"	7.0″	26#	N-80	LT&C	7300'-8700'

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 2.0

 B. Cementing Program: Surface casing: 400 sacks class 'C' with 2% CaCL2, (YLD 1.32 WT14.8) cement circulated to surface.

Intermediate Casing: 200 sacks 'H' + 12% Thixad + additives (YLD 1.56 WT 14.6) 550 sx 35:65 Poz C (YLD 2.0 WT 12.5) tail in with 200 sx 'C' + 2% CaCL2 (YLD 1.32 WT 14.6). Cement circulated to surface.

Production Casing: TOC at 7000'(500' above the Wolfcamp). 350 sx Super "C" Modified (YLD 1.63 WT 13.0.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	_Туре	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-350'	FW Spud Mud	8.3-8.6	32-36	N/C
350'-2650'	FW	8.4	28	N/C
2650'-7400'	FW	8.4	28	N/C
7400'-7800'	Cut Brine	8.9-9.6	28	N/C
7800'-TD	SW Gel/Starch	8.9-9.6	32-38	<12cc

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' samples out from under surface casing. Logging: CNL/LDT, DLL w/RXO. Coring: None DST's: As warranted.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE AND POTENTIAL HAZARDS: Anticipated BHP: From: 0

From: From: From:	 TO:	2650'	Anticipated Max. BHP: <150 Anticipated Max. BHP: <1150 Anticipated Max. BHP: <4300	
			Antioipated Max. Dill. 14000	1.01

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: Possible Canyon

Maximum Bottom Hole Temperature: 150 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 20 days to drill the well with completion taking another 15 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation Brannigan "ANF" Federal #6 Surface: 1379' FNL & 259' FEL Bottom Hole: 1379' FNSL & 660' FEL Sec. 6-T22S-R24E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 30 miles Northwest of Carlsbad, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Carlsbad on highway 285 for 12.5 miles to highway 137. Turn west and go 14 miles to a caliche road and turn east. Stay on main on caliche road, up the hill; at the top of the hill turn north and go approximately 1.5 miles to the location.

- 2. PLANNED ACCESS ROAD None needed
- 3. LOCATION OF EXISTING WELL
 - A. There is drilling activity within a one-mile radius of the wellsite.
 - B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
 - A. There are production facilities on this lease at the present time.
 - B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate closest pit and obtain any material needed for construction.

- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the reserve pits.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
 - D. Oil produced during operations will be stored in tanks until sold.
 - E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.
- 8. ANCILLARY FACILITIES:
 - A. Flowline to follow existing corridor right of way to the Brannigan Tank Battery. See plat on map. Flowline will be on lease.
- 9. WELLSITE LAYOUT:
 - A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
 - B. The reserve pits will be plastic lined.
 - C. A 600' x 600' area has been staked and flagged.
- 10. PLANS FOR RESTORATION
 - A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
 - B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.
- 11. SURFACE OWNERSHIP: Bureau of Land Management, Carlsbad, New Mexico.
- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
 - B. The primary surface use is for grazing.

Brannigan "ANF" Federal #6 Page 3

- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological report dated March 13, 1998, NMCRIS No. 60128 for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
 - B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

Ken Beardemphl, Landman Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations, Completions and Production:

> Brian Collins, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and , that the work associated with the operations proposed herein will be performed by Yates Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/20/98





Yates Petroleum Corporation 105 SOUTH 4th STREET ARTESIA, NEW MEXICO 88210

Brannigan ANF Federal #6 Surface: 1379' FNL and 259' FEL Bottom Hole: 1379' FNL and 660' FEL Section 6, T22S-R24E Eddy County, New Mexico NM-81218



Head to Reserve Pit will vary between rigs

The above dimension should be a maximum

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