			\sim	
	··•e	S & Cuisma m	and a second sec	Q/
		112137	14:15 16 12	
Form 3160-3 (August 1999)		5 (0 ⁰ 101112131 (0 ⁰ 101112131 (0 ⁰ 101112131 (0 ⁰ 101112131	CI III	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
	UNITED STATES DEPARTMENT OF THE II BUREAU OF LAND MANA			Serial No.
APPLICA			AN AN	an, Allottee or Tribe Name $2 \frac{1}{2} \frac{1}{2}$
la. Type of Work: 🛛 DRIL	L Q REENTE	ER () () () () () () () () () (87125 Nort	or CA Agreement, Name and No. h Benson Oueen Uni
	ll 🖸 Gas Well 📮 Other	Single Zone 🗖 Mul	tiple Zone Nort	ame and Well No. The Benson Queen Uni
2. Name of Operator United Oil & Mir	erals, Inc.	l	9 API We 30-	OIS 315/2
3a Address 1001 Westbank Dr.	, Austin, TX 78746	3b. Phone No. (include area code) (512) 328-8184	Quee	
	ation clearly and in accordance with	any State requirements.*)		R., M. for Blk and Survey or Area
At surface 1310' At proposed prod. zone	FSL x 1423' FWL Same	UNIT N	Sec.	28, T18S, R30E
4. Distance in miles and direction 7 miles south of	from nearest town of the second secon	CONTROLLED WATE	12 County Eddy	
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, 	if any) 1310 '	16. No. of Acres in lease 1800	17. Spacing Enit dedicat 40	
 Distance from proposed locatio to nearest well, drilling, comple applied for, on this lease, ft. 	n* sted, 850 '	19. Proposed Depth 3600 '	20. BI JBIA Bond No. NM2732	on file
. Elevations (Show whether DF 3418 ' GR	, KDB, RT, GL, etc.)	22. Approximate date work will st 10/15/00		ted duration 25 days
		24. Attachments		
Well plat certified by a registere A Drilling Plan.	d surveyor. ation is on National Forest System	Item 20 ab re). 5. Operator stiffs	the operations unless cove cation. specific information and/o	ered by an existing bond on file (se or plans as may be required by th
Signature	P.E	Name (Printed/Ty d) Jerry I seng,	P.E.	Date 9/11/00
Petroleum Engine	, er			· · · · · · · · · · · · · · · · · · ·
proved by (Signature) Kick A A	Whitey_	Name (Prin WTyped) K (CH Food 7 Office	Whitey	Date 1 1 - 5 - 0 d
$\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{10000}$ $\frac{1}{10000000000000000000000000000000000$	to certify the the applicant holds lo	the second se	a the subject lease which we	ould entitle the applicant to conduct
le 18 U.S.C. Section 1001 and Ti tes any false, fictitious or fraudule	tle 43 U.S.C. Section 1212, make it int statements or representations as to	a crime for any person knowingly a o any matter within its jurisdiction.	nd willfully to make to any	department or agency of the United

*(Instructions on reverse) Benson; Qveen · Gray burg, North

.

/

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS . مەنبە

Jh



D STRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 87504-2088 State of New Mexico

Ì

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 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

API Number	Pool Code	Pool Name	
Property Code	Prop NORTH BENS	Well Number 53	
OGRID No.	oper UNITED OIL &	Elevation 3418	
	Surfac	ce Location	

North/South line Feet from the East/West line UL or lot No. Section Township Range Lot Idn Feet from the County 1423 SOUTH WEST EDDY 28 18 S 30 E 1310 Ν

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill (Consolidation (ode Or	der No.				
48									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION
	1	
		I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		P.E. Bignature JEy Ilsong, P.E. Printed Name Petroloum Engineer- Title Planton
		Jate SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on the plat was platted from field noise of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
;423'	-1310	 AUGUST 23, 2000 Date Surreyed Signature & Seal of Professional Surreyer Bark & Hom E/30/00 00-11-10.19
		Cortificato No. RONALD T FIDSON 3239 GARY EDSON 12641

~ VICINITY MAP ~



SEC. 28 TWP. 18-S RGE. 30-E

SURVEY_____N.M.P.M.____ COUNTY_____EDDY____

DESCRIPTION 1310' FSL & 1423' FWL

ELEVATION _____ 3418

OPERATOR <u>UNITED OIL & MINERALS, I</u>NC. LEASE<u>NORTH BENSON QUEEN UNIT</u> JOHN WEST SURVEYING HOBBS, NEW MEXICO (505 393-3117

UNITED OIL AND MINERALS, INC. WELL PROGRAM

WELL NAME: North Benson Queen Unit #53 COUNTY, STATE: EddyCo., N.M.

Location: 1310' FSL x 1423' FWL, Sec 28, T18S, R30E

Directions:

GEOLOGICAL PROGNOSIS

Elevation: 3418'

Formations	Depth	Subsea	Formations	Depth	<u>Subsea</u>
Fresh Water	0-355'		Top Grayburg	3340'	78'
Top Anhydrite	355'	3063'			
Top Salt	560'	2858			
Base Sait	1380'	2038'			
Top Yates	1565'	1853'			
Top Queen	2745'	673'			
Top Penrose	2970'	448'			

Logs:

At TD: GR/DLL/MSFL Density/Dual Spaced Neutron/ Cal from Td to Surface

Remarks:

CASING PROGRAM

			Burst	Coll	Ten
Intervals	<u>Length</u>	Casing	PSI	PSI	LBS
0- 550' 356'	350' 550-	8-5/8,24#,K-55	2950	1370	263M
0-3600'	3600'	5-1/2,14#,K-55	4270	3120	189M
					·····
		·			
				·····	
Wellheads: Larki	in 8-5/8", 2000#, WP Thre	aded Larkin 4-1/2" 200	0# w/ a Top Flange	Threaded	
					·····
	Toots' Toot BOD's and s	inface equipment to 200)0# on ninnle un and	when seals are broken	Test 8-5/8" and

Remarks: BOP Tests: Test BOP's and surface equipment to 2000# on nipple up and when seals are broken. Test 8-5/8" and 5-1/2" to 1000# for 30 minutes. Repair if more than 10% of the pressure is loss in 30 minutes.

CEMENT PROGRAM

<u>Hole Size</u>		<u>Depth</u>	Casing Size	Cement	Yield(CF/SX)	Excess	TOC
12-1/4"	354	- -550'	8-5/8"	269 Sxs Class "C" w/	1.74	100%	Surface
				4% Gel + 2% CaCl		\frown	
						/ 1	
7-7/8"		3600'	5-1/2"	416 Sxs(35:65)Poz& "C"	1.85	//50% /	
				6% Gel,0.25 CF			
				252 Sxs(35:65)Poz&"C"	1.65		
				11 lbs/sx Bent,0.5%FL25			

UNITED OIL AND MINERALS, INC. WELL PROGRAM

Prod Csg: Remove varnish from bottom 800'(sandblast). Run FS, 2 jts, FC, and csg. Thread Lock the bottom 2 jts. Centralize 2 per jts to 2500'. Displace w/ water after dropping plug.

MUD PROGRAM

350

<u>Interval</u> 0- 550 ・3 丁6 1	<u>Wt(lb/gal)</u> 8.4-8.6	<u>Vis(sec)</u> 30-35	<u>WL(cc)</u>	Type Mud & Additives FW Gel/Paper/LCM
- 550'- 2700'	9.3+	40	·····	
2700'-3600'	9.5-10.0	40	6-8 cc	

Remarks: Lost circulation is possible during the drilling of the 12-1/4" hole. Have paper and LCM available. Dry drill only if circulation cannot be regained.

NOTIFICATION:

Title	Phone
Pet. Eng	(512)632-2133
VP- Drlg	(512)633-6543
Consultant	(361)920-7826
Prod Supt	(806)891-5990
	Pet. Eng VP- Drlg Consultant

Surface Use and Operation Plan United Oil & Minerals, Inc. North Benson Queen Unit Well No. 53 #53-1310 FSL & 1423 FWL, Sec 28, T18S-R30E Eddy County, New Mexico (Development Well)

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 necessary 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 effects associated with the operation.

1. EXISTING ROADS

A. Exhibit A is a map of the North Benson Queen Unit Area on a scale of approximately 1 inch to 2000 feet showing the location of the proposed wellsite, roads in the vicinity, and road to the location. The road into the location is colored in red and begins on the map with the asterisk next to Section 33.

Exhibit B is a lease map prepared by Midland Map Company showing the location of the proposed wellsite roads in the vicinity. The proposed location is situated approximately 11 miles Southeast of Artesia, New Mexico, via the access route shown in red.

DIRECTIONS

From Artesia go approximately 11 miles in a southeast direction on Highway 360 to the intersection of County roads 360 and 251, go NE on 251 2.4 miles to road on left. Take a left and go ¹/₄ mile and take a right into location (NBQ53).

2. PLANNED ACCESS ROAD

- A. The proposed new access will be approximately 700 feet in length from point of origin to the edge of the drilling pad. The road will lie in a north to south direction.
- B. The new road will be approximately 12 feet in width.
- C. The new road will be covered with caliche. No turnouts will be necessary.
- D. The center line of the new road has been staked and flagged and the route of the road is clearly visible.

Surface Use and Operation Plan North Benson Queen Unit Well No. 53

3. LOCATION OF EXISTING WELLS

A. The well locations in the vicinity of the proposed well are shown in Exhibit A. There are several wells within a one mile radius because this is a producing field.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. In the event that the well is productive, a two inch steel flowline will be connected to existing facilities.
- 5. LOCATION AND TYPE OF WATER SUPPLY
 - A. Water for drilling will come from a line laid from the fresh water injection plant in the SE/4 of Section 28.
- 6. SOURCES OF CONSTRUCTION MATERIALS
 - A. Any caliche required will come from the deep bury pit on the proposed location.
- 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 the operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the USGS for appropriate approval.
 - D. Oil produced during operations will be stored in tanks until sold.
 - E. Current laws and regulations pertaining to the disposal of human wastes will be complied with.
 - F. Trash, waste paper, garbage and junk will be buried in a <u>separate trash pit</u> and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.

Surface Use and Operation Plan North Benson Queen Unit Well No. 53

- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. ANCILLARY FACILITIES
 - A. None required

9. WELLSITE LAYOUT

- A. Exhibit C shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The reserve pits will be plastic lined.
- 10. PLANS FOR RESTORATION OF THE SURFACE
 - 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 cleared of all trash and junk, to leave the wellsite in as good a condition as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY

- A. The wellsite and access route are located in sand hills near Loco Hills.
- B. The top soil at the wellsite is sandy.
- C. The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some yucca, and miscellaneous weeds.
- D. No wildlife was observed but it is likely that rabbits, lizards, insects, and rodents travese the area. The area is used for cattle grazing.
- E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.
- F. There are no residences in the area.
- G. The wellsite is located on federal surface.

Surface Use and Operation Plan North Benson Queen Unit Well No. 53

H. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

12. OPERATOR'S REPRESENTATIVES

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Jerry Ilseng Petroleum Engineer 1001 Westbank Drive Austin, Texas 78746 Francis Gavin Production Superintendent

Levelland, Texas

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 United Oil and Minerals, Inc. and its contractors and subcontractos in conformity with this plan and the terms and conditions under which it is approved.

	the
J.R. Useng	\mathcal{J}



1/26/00

Patterson Drilling Company

Rig #65

8,000'

DRAWWORKS

Weiss W-45

ENGINES

Two 8V71 Detroit diesels, 318 HP each with Allison 955 Torque Converter

DERRICK

Lee C. Moore 100', 280,000# Rated Capacity

SUBSTRUCTURE

12' high, 17' wide, 40' long, 380,000# Setback Capacity, Rotary Clearance - 9.4', KB - 13'

MUD PUMPS

Pump #1: Emsco D-550 w/Cat 379 Pump #2: Gardner Denver PZ-8 w/Cat 3508

DRILL STRING

8.000' 4-1/2" with X-hole 20 Drill Collars 6-1/4" with 4-1/4" X-hole 8 Drill Collars 8" with 6-5/8" reg Other sizes of drill pipe and drill collars are available

BLOWOUT PREVENTERS

One Shaffer, Type E with closing unit, Chcke Manifold 3" x 3000#

MUD SYSTEM

One 75 BBL Premix Pit (if needed), and 2 - 200 BBI Steel Pits (if needed)

MUD HOUSE

None

COMMUNICATIONS Cellular Phone

OTHER EQUIPMENT

Blocks. Emsco 150 Ton Hook. BJ 460 150 Ton Swivel. Oilwell PC 150, 150 Ton Rotary Table. BDW 17-1/2" x 44" 150 Tori Shale Shaker. Single Screen Electrical Power. One Cat 3304 w/234 kW Generator & One Cat 3306 w/100 kW Generator Fresh Water Storage. 500 bbl tank Housing.

"Hole Requirements will dictate actual Reserve Pit size (TOOLPUSHER SHOULD BE CONSULTED)"



DESIGNATION OF SUCCESSOR UNIT OPERATOR

(North Benson Queen Unit, Eddy County, New Mexico)

This Designation of Successor Unit Operator, dated as of the 1st day of June 1999. by and among UNITED OIL & MINERALS, INC. a Texas corporation, whose address is 1001 WESTBANK DRIVE AUSTIN, TX hereinafter designated as "First Party" and the owners of unitized working interests, hereinafter designated as "Second Parties".

WHEREAS, under the provisions of the Act of February 15, 1920, 41 Stat. 437, 30 U.S.C., Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Department of the Interior approved a Unit Agreement (No. <u>8910124100</u>) for the North Benson Queen Unit (the "Unit") wherein <u>United Oil & Minerals</u> was appointed Unit Operator;

WHEREAS. MARIAH ENERGY CORP. has been appointed Successor Operator of the Unit:

WHEREAS, MARIAH ENERGY CORP has resigned as Unit Operator; and

WHEREAS, the First Party has been and hereby is designated by Second Parties as Operator of the unitized area and said First Party desires to assume all rights, duties and obligations of Operator under said Unit Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth, First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Operator under and pursuant to all the terms of said Unit Agreement, and the Second Parties agree that, effective upon approval of this Designation of Successor Operator by an authorized officer of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator pursuant to the terms and conditions of said Unit Agreement, said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY: UNITED OIL & MINERALS, INC. By: Name: Mike Peays Title: PRESIDENT