Form 3 160-5 (August 1999)

UNITED STATES

UNITED STATES OCD-A
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reent abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED OMB No. 1004-0135 Expires Inovember 30, 2000

5. Lease Serial No.

NM-11393	ſ
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6.	If Indian,	Allottee or	Tribe Name	

SUBMITINUTRIEL	CATE – Other instructio	ns op reverse sid		7. If Unit or CA/	Agreement, Name and/o	r No.	
1. Type of Well		Month - Year	7				
Oil Well Gas Well	Other	MAR 2 1 2007		8. Well Name an	d No.		
2. Name of Operator		OCD - ARTESIA, NM	<i>/</i>		BJH Federal #1 (Re	∍-Entr	<u>/) </u>
Yates Petroleum Corporati				9. API Well No.			
3a. Address	3b.	Phone No. (include are	· -				
105 South Fourth Street, A		(505) 748-147	1	10. Field and Poo	, or Exploratory Area		
4. Location of Well (Footage, Sec., 7			-	11 C	:-1 C4-40		
1650' FNL and 1650' FWL, U	INIT F (SEINVV)		ŀ	 County or Par 	ish, state		
Section 22, T26S-R25E				Eddy	County, New Mex	kico	
12 CHECK A	DDD ODDIATE DOV/ES\ TO IN	IDICATE NATIDE O	E NOTICE	DEDORT OR	OTHER DATA		
	PPROPRIATE BOX(ES) TO IN				—————		
TYPE OF SUBMISSION	E OF ACTIO	ON					
Notice of Intent	Acidize	Deepen	Production (Start/Resume)	Water Shut-Off		
	Alter Casing	Fracture Treat	Reclamation	Ī	Well Integrity		
Subsequent Report		New Construction	Recomplete	-	Other Changes to	<u> </u>	
		Plug and Abandon	Temporarily		Surface Use and		
Final Abandonment Notice		Plug Back	Water Dispo		Operations Plan		
Describe Proposed or Completed Operat If the proposal is to deepen directionall Attach the Bond under which the work Following completion of the involved of Testing has been completed. Final Abdetermined that the site is ready for final that the site is ready for final to the proposal of the prop	perations. If the operation results in a mandonment Notices shall be filed only a inspection.) ishes to make the following coposed access (Exhibit "A-2" a used.	hanges/additions to a attached).	pletion in a nev ling reclamation	w interval, a rom 3, have been comple	APD dated		
Changes Shaded Thank you.							
 I hereby certify that the foregoing Name (Printed/Typed) 	is true and correct	Title					
, , ,	L. Caffall	11110	R	egulatory Age	ent		
Signature - O C C	, <u> </u>	Date					
Rolling J. a	Mass			March 12, 200)7		
	THIS SPACE	FOR FEDERAL OR S	TATE USE		Harris (Applement)		
	/s/ James Stovall	FIELD MA	NAGER	Date	MAR	20	2007
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conductive to conductive the applicant to	table title to those rights in the subject l		CARL	SBAD FIE	LD OFFICE		
Title 18 U.S.C. Section 1001, make states first tious or fraudulent states	e it a crime for any person know ments or representations as to an	ringly and willfully to r y matter within its juri	nake to any sdiction.	department or a	gency of the United		

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Retriever BJH Federal #1 (Re-entry)

1650' FNL and 1650' FWL Section 22-T26S-R25E 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 15 miles south southeast of Whites City, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go south from Whites City on US. 62-180 for 10 miles to a cattleguard with a pipe gate in the east right of way fence. Follow old lease road east for 5.1 miles to location.

2. PLANNED ACCESS ROAD:

- A. A lease road right of way 30 feet wide and 27,537.1 feet in length, being 15 feet to the left and right of antexisting lease road located in sections 18, 14 and 24, T265-R24E and sections 19, 20, 21, and 22, T265-R25E as shown in red on plat. (Attached-Exhibit "A-2")
- B. The road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL:

- A. There is no 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 no 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.

Retriever BJH Federal #1 (Re-Entry) Page 2

LOCATION AND TYPE OF WATER SUPPLY: 5.

It is planned to drill the proposed well with a cut brine water system. The water will A. 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 nearest pit and obtain any permits and materials needed for construction.

7. METHODS OF HANDLING WASTE DISPOSAL:

- Drill cuttings will be disposed of in the reserve pits. Α.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- Oil produced during operations will be stored in tanks until sold. D.
- Current laws and regulations pertaining to the disposal of human waste will be E. 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: NONE

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.
- В.
- The reserve pits will be plastic lined. A previously 400' X 400' area will be used. C.

PLANS FOR RESTORATION: 10.

- 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 A. trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- Unguarded pits, if any, containing fluids will be fenced until they have dried and B. 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.

Retriever BJH Federal #1 (Re-Entry) Page 3

11. SURFACE OWNERSHIP:

Bureau of Land Management

Carlsbad Field Office Carlsbad, New Mexico

12. OTHER INFORMATION:

- Topography: Refer to the existing archaeological report for a description of the Α. topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- B. The primary surface use is for grazing.

13. **OPERATOR'S REPRESENTATIVE:**

Through A.P.D. Approval: Debbie L. Caffall, Permit Agent Α. Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

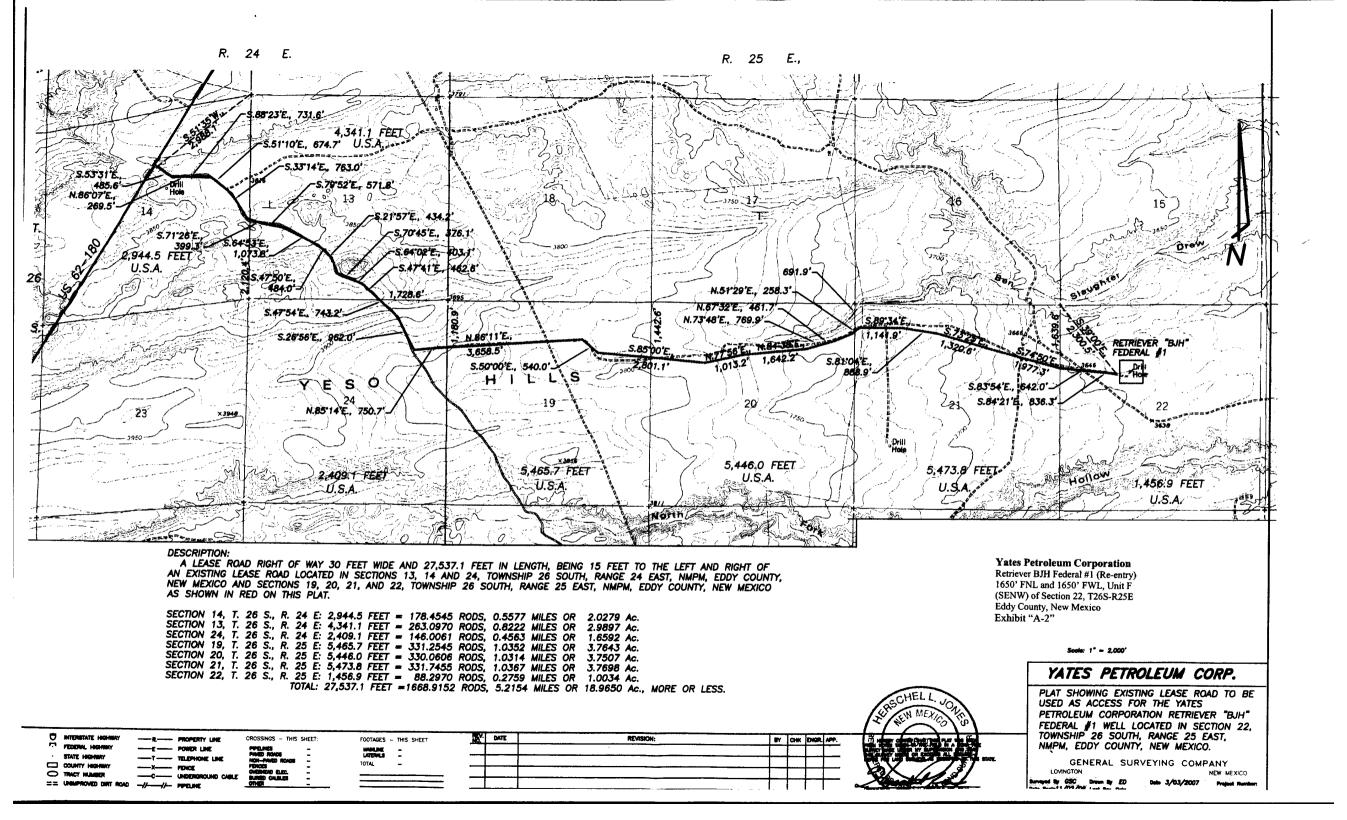
B. ' Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

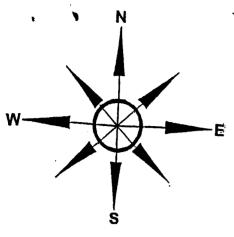
14. **CERTIFICATION:**

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.

3/12/2007

Corrected 3/12/2007

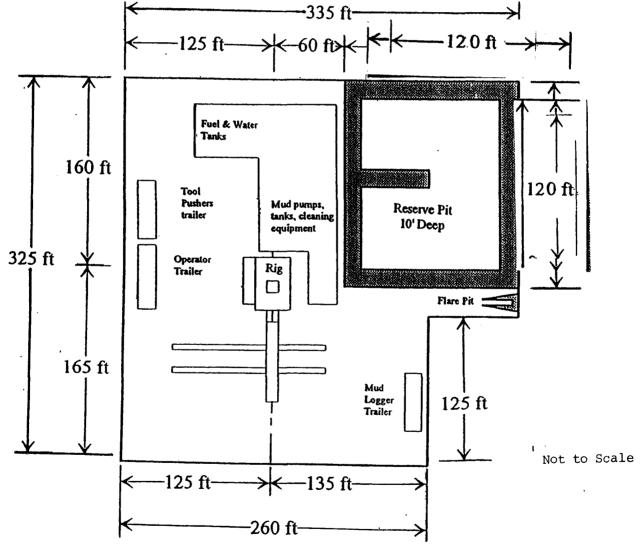




Yates Petroleum Corporation Location Layout for Permian Basin

Up to 12,000'

Pits to the EAST



Access Road to the SOUTHWEST

Yates Petroleum Corporation

Retriever BJH Federal #1 (Re-entry) 1650' FNL and 1650' FWL, Unit F (SENW) of Section 22, T26S-R25E Eddy County, New Mexico Exhibit "C" -corrected 3/12/2007

Distance from Well Head to Reserve Pit will vary between rigs

The above dimension should be a maximum Pits 120' x 120'

Reduced Pits from 175' x 150'

Ferm 3160-51 (April 2004)

Month - Year

Subsequent Report

Final Abandonment Notice

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT OCD-ARTESIA

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007

Well Integrity

Other

5. Lease Serial No.

Do not use this form for proposals to drill or to re-enter an

2	MM	025	<u> 1099</u>	<u> </u>		
6.	If Ir	ndian,	<u>1099</u> Allotte	e or	Tribe	Name

DO not use this form for paper 2 1 2007 abandoned well. Use Form				o. II iikiiiii, Anottee oi	THE Name	
SUBMIT IN TRIPLICATE -		7. If Unit or CA/Agree	ment, Name and/or No			
Type of Well Oil Well Gas Well Other 2. Name of Operator				8. Well Name and No. Smith Federal	No. 4	
Marathon Oil Company				9. API Well No.		
3a. Address		3b. Phone No. (include an	rea code)	30-015-32957		
P.O. Box 3487 Houston, TX 77253-348	7	713-296-2096		10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Survey I	Description)			Indian Basin Morrow		
SHL 1511'FNL & 839' FEL, UL"H", Sec	11, T-22-S, R-	23-E				
Proposed New BHL 2618' FNL & 1860'	FEL, UL"G", Sec	11, T-22-S, R-23-	E	11. County or Parish,	State	
Existing BHL 2053' FSL & 701' FEL,	UL"I", Sec 11,	T-22-S, R-23-E		Eddy	NM	
12. CHECK APPROPRIATE	BOX(ES) TO INI	DICATE NATURE OF	NOTICE, REP	ORT, OR OTHER D	ATA	
TYPE OF SUBMISSION		TY	PE OF ACTION			
X Notice of Intent	Acidize	X Deepen	Production	(Start/Resume) V	Vater Shut-Off	

Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Fracture Treat

New Construction

Plug and Abandon

Plug Back

Reclamation

Recomplete

Water Disposal

Temporarily Abandon

Marathon Oil Company is proposing to deepen the Smith Federal No. 4 to the Morrow formation. PLease see attached drilling plans, and proposed directional plan.

> SEE ATTACHED FUR CONDITIONS OF APPROVAL

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Alter Casing

Casing Repair

Change Plans

Convert to Injection

 I hereby certify that the foregoing is true and correct Name (Printed/Typed) 	Title		
Charles E. Kendrix	Reg Compliance Rep	OVED	\
Charles E. Kindming	Date 03/05/2007	APPRO	
THIS SPACE FO	OR FEDERAL OR STATE OFFICE USE	7007	\mathcal{I}
Approved by	Title	MADate	$\overline{}$
Conditions of approval, if any, are attached. Approval of this notice d certify that the applicant holds legal or equitable title to those rights i which would entitle the applicant to conduct operations thereon.		FREDERICK WRIGHT FREDERICK WRIGHER FREDERICK WRIGHER	<u> </u>
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes	s it a crime for any person knowingly and willfully to ma	ke to any denartment or agency of the U	nited

SMITH FEDERAL No. 4

Morrow Deepening Procedure

Surface Hole Location: 1511' FNL & 839' FEL, Section 11, Township 22 South, Range 23 East Bottom Hole Terminus: ~2050' FSL & 660' FEL, Section 11, Township 22 South, Range 23 East Indian Basin Field, Eddy Co, NM

mulan Dasin Picto, Eddy Co, 141

Purpose:

Deepen well to Morrow and complete

Current Status:

Plugged back in Upper Penn perforations

Elevation/Depths:

GL: 3933'

KB: 3950'

TD: 8570'

PBTD: 8520' (float collar)

Surface Casing:

9-5/8" 36# & 40# K55 set @ 1519'. Cemented w/ 745 sacks of foamed cement followed by a 150-sack tail of neat cement. Did not circulate. Pumped 275 sacks

down annulus and capped w/ 75 sacks of neat cement.

Production Casing:

7", 23 & 26# K-55 set @ 8569'. Cemented w/ 100 sacks of foamed acid soluble cement followed by 1100 sacks of nitrified cement and tailed with 120 sacks of neat

cement. Circulated 180 sacks. Capped w/ 75 sacks of neat cement.

Sqzd Perforations:

7576' - 7686', 7693' - 7714', 7728' - 7740', 7774' - 7788', 7808' - 7837',

7852' - 7866', 7912' - 7934', 7998' - 8016'

Total feet of perfs = 240' net over 440' gross interval

Safety:

- Hold daily safety meeting explaining the proposed procedure.
- H2S concentration 6,500 ppm
- Keep TIW valve on rig floor at all times.
- Keep kill-string in well at night if tbg is pulled.
- Follow MOC SOP's throughout job.

Procedure:

- 1. Hold safety meeting. Make sure all associated personnel have proper PPE for the job.
- 2. MIRU Key Energy Rig # 482.
- 3. Make sure Geronimo line is staked securely, H₂S monitors are in place, guardrails are in place and the unit is properly grounded. RU Hydraulic BOPE Stack.
- 4. Deepening to Morrow to be done w/ enclosed drilling system w/ steel tanks for mud. Cuttings will be hauled to land farm for disposal.
- 5. RIH with whipstock and mills. Orient and set whipstock @ ~ 8285'. Mill window and 10 ft of open hole. POOH w/ mill bit. RIH w/ 6 1/8" bit, directional BHA and DP. Drill directional open hole w/ 8.8-9.3 ppg cut brine mud f/ 8285' MD to TD @ ~10,400 MD, 9600' TVD, while mudlogging w/ samples every 10', and MWD reading every 100'.
- 6. Circ high viscosity pill. Spot high viscosity pill at TD. POOH w/ BHA and pipe. RU open hole loggers. Log well f/~8525 to ~10400' TD.

- 8. RU Halliburton cementers. Cement liner with 310 sks 50/50 Poz/Premium cement. Set ZXP liner top packer. Pull 100 ft above liner and circulate excess cement. POOH. RD cement equipment.
- 9. Change out 11 3M" X 7 1/16" 3M tubing head w/ 11" 3M X 7 1/16" 5M tubing head. SI well. Release drilling rig.

Adjustable Choke

2" Nominal

MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen suifide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

- 1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

- A. Wind direction indicators.
- **B.** Automatic H2S detection alarm equipment (both audio and visual).

- C. Clearly visible warning signs. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas.

2. WELL CONTROL SYSTEMS

- A. Blowout Prevention Equipment

 Equipment includes but is not limited to:
 - a. pipe rams to accommodate all pipe sizes
 - b. blind rams
 - c. choke manifold
 - d. closing unit

Auxiliary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud- gas separator
- d. flare line and means of ignition _____
- e. remote operated choke

B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

Exhibit "I"

Marathon Oil Company

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

Marathon Oil Company has pollution prevention, good housekeeping, safety and fire prevention policies that are to be followed at all times. All company employees, contractors and subcontract personnel are to observe safe working practices and prevent pollution to the maximum extent possible.

In the event of an emergency, spill, fire, explosion or blowout, personal injuries, property or equipment damage, call MARATHON OIL COMPANY @ 1-800-351-1417

Prior to drilling, certain measures should be taken:

- 1. Use impervious materials to build the location and the reserve pit.
- 2. Ditch the outline of the rig toward the reserve pit.
- 3. Place sumps on each end of the rig to catch any free oil or debris from entering the reserve pit.
- 4. Keep materials on location to contain or clean up spills (absorbent pads, shovels, etc).
- 5. Make known to Drilling Supervisors a list of spill response contractors available.
- 6. BOP testing shall be performed each time a casing string is set.
- 7. The Drilling contractor is required to have a certified SPCC plan for the Drilling rig.
- 8. Routine inspections of the operations shall be performed to ensure SPCC guidelines are followed.
- 9. Ensure all Marathon personnel are HAZWOPER trained in methods for stopping, controlling, and cleaning up any spills.

Spill control measures to be taken:

- 1. Shut down activities underway, as deemed necessary by the person in charge.
- 2. Determine the source of pollution and stop the discharge, if possible.
- 3. Isolate and contain the discharged materials, if possible.
- 4. Seek guidance from the Southern Region Emergency Action Plan.

03-19-2007



Marathon Oil

Southern Business Unit Business Development P.O. Box 3487 Houston, Texas 77253-3487 Telefax Number: (713) 499-6750

DATE: March 19, 2007

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME:	Mr. Fred Wright
COMPANY:	Bureau of Land Management
CITY & STATE:	Artesia, New Mexico
FAX NUMBER:	1-505-885-9264
OFFICE NUMBER:	

FROM:

NAME:

CHARLES KENDRIX

TRANSMITTING
7
PAGES
(INCLUDING THIS COVER PAGE)

IF TRANSMISSION IS NOT COMPLETE, PLEASE CALL

(713) 296-2096

MESSAGE:

Mr. Wright,

I have included copies of the items that you had requested (BOP & choke manifold, and H2S plan) for the Smith Federal No. 4 well for Marathon. We have changed the work procedure to indicate the Marathon will be running a heavier liner in the well. Although we will not be drilling through H2S concentrated formation, we left the H2S concentration at 6500 ppm on the work procedure in case we encounter problems with the squeezed Upper Penn perforations not holding. Thank you for pointing out the collapse rating on the liner.

Charles Kendrix Marathon Oil Company

The information contained in this facsimile is intended for the use by the individual or entity named above.

If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited.

If you have received this communication in error please immediately notify us by telephone, collect, and return the message to Marathon Oil Company, PO Box 3128, Houston, Texas 77253-3128 via US Postal Service, at our expense.

SMITH FEDERAL No. 4

Morrow Deepening Procedure

Surface Hole Location: 1511' FNL & 839' FEL, Section 11, Township 22 South, Range 23 East Bottom Hole Terminus: ~2050' FSL & 660' FEL, Section 11, Township 22 South, Range 23 East

Indian Basin Field, Eddy Co, NM

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down annulus and capped w/ 75 sacks of neat cement.

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cement. Circulated 180 sacks. Capped w/ 75 sacks of neat cement.

Sqzd Perforations:

7576' – 7686', 7693' – 7714', 7728' – 7740', 7774' – 7788', 7808' – 7837',

7852' - 7866', 7912' - 7934', 7998' - 8016'

Total feet of perfs = 240' net over 440' gross interval

Safety:

MTHDRAMM - Hold daily safety meeting explaining the proposed procedure.

- H2S concentration - 6,500 ppm

- Keep TIW valve on rig floor at all times.

- Keep kill-string in well at night if tbg is pulled.

- Follow MOC SOP's throughout job.

Procedure:

- 1. Hold safety meeting. Make sure all associated personnel have proper PPE for the job.
- 2. MIRU Key Energy Rig # 482.
- 3. Make sure Geronimo line is staked securely, H₂S monitors are in place, guardrails are in place and the unit is properly grounded. RU Hydraulic BOPE Stack.
- 4. Deepening to Morrow to be done w/ enclosed drilling system w/ steel tanks for mud. Cuttings will be hauled to land farm for disposal.
- 5. RIH with whipstock and mills. Orient and set whipstock @ ~ 8285'. Mill window and 10 ft of open hole. POOH w/ mill bit. RIH w/ 6 1/8" bit, directional BHA and DP. Drill directional open hole w/ 8.8-8.9 ppg cut brine mud f/ 8285' MD to TD @ ~10,400 MD, 9600' TVD, while mudlogging w/ samples every 10', and MWD reading every 100'.
- Circ high viscosity pill. Spot high viscosity pill at TD. POOH w/ BHA and pipe. RU open hole 6. loggers. Log well f/ \sim 8525 to \sim 10400' TD.

- 7. RIH w/ 4 $\frac{1}{2}$ ", J-55, 10.5# casing liner and hanger. Set hanger at ~ 7276' w/ bottom of liner @ TD ~ 10,400'.
- 8. RU Halliburton cementers. Cement liner with 310 sks 50/50 Poz/Premium cement. Set ZXP liner top packer. Pull 100 ft above liner and circulate excess cement. POOH. RD cement equipment.
- 9. Change out 11 3M" X 7 1/16" 3M tubing head w/ 11" 3M X 7 1/16" 5M tubing head. SI well. Release drilling rig.

WITHDRAWN



Plan #1 Page 1 of 6



Operator Marathon Oil Company

Area Eddy County, NM

Field Indian Basin Field

Wellbore #4 PWB

Facility Indian Basin

Was the second	PINFORMATION		
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US fe	et Software System	WellArchitect™ 1.2
North Reference	Grid	User	GomeOscR
Scale	0.999915	Report Generated	02/07/07 at 10:29:38
Wellbore last revise	d 02/06/07	Database/Source fil	e WA_Midland/#4_PWB

LOCATION									
Local coordinates			Grid co	ordinates	Geographic coordinates				
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]			
Slot Location	-42515.74	-5270.96	428597.00	512345.50	32 24 30.022N	104 33 52.922W			
Facility Reference Pt			433867.50	554857.50	32 31 30.826N	104 32 52.438W			
Field Reference Pt	a series of the		0.00	0.00	30 59 24.512N	105 55 44.137W			

ZAPATH DATUM			
Calculation method	Minimum curvature	Rig on #4_SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on #4_SHL (RT) to Mean Sea Level	0.00 feet
Vertical Reference Pt	Rig on #4_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #4_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	219.77°



Plan #1 Page 2 of 6



Operator Marathon Oil Company Slot #4_SHL

Area Eddy County, NM Well Smith Federal #4

Field Indian Basin Field Wellbore #4 PWB

Facility Indian Basin

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	DLS	Design	Path
[feet]	[°]	[°]	[feet]	[feet]	[feet]	[feet]	[°/100ft]	Comments	Comment
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00		
113.00	0.250	96.000	113.00	-0.14	-0.03	0.25	0.22)
329.00	0.750	200.000	328.99	0.93	-1.40	0.23	0.39	<u>.</u>	
574.00	0.250	197.000	573.98	2.93	-3.42	-0.47	0.20		
884.00	0.250	199:000	883.98	4.19	-4.71	-0.89	0.00	Market B	
1006.00	0.500	194.000	1005.98	4.92	-5.48	-1.11	0.21		
1095.00	0.200	194.000	1094.98	5.41	-6.00	-1.24	0.34		1 - 1000
1278.00	0.300	194.000	1277.97	6.13	-6.78	-1.43	0.05		
1541.00	0.200	310.700	1540.97	6.74	-7.15	-1.95	0.16		
1573.00	0.300	306,900	. 1572.97	6.74	-7.06	-2.06	0.32		
1605.00	0.900	136.300	1604.97	6.77	-7.19	-1.95	3.74		
1637.00	1.200	114.900	1636.97	6.72	-7.51	-1.47	1.53		
1669.00	2.200	117.700	1668.95	6.50	- 7.94	-0.62	3.13		Santa Santa
1733.00	3.800	127.900	1732.86	6.18	-9.81	2.14	2.63		
1797.00	5.700	139-500	1796.64	6:65	13:53	5.87	- 3.31	Kr sp. 4	1, 3, 46
1859.00	6.900	152.200	1858.27	8.59	-19.17	9.61	2.96		
1922.00	7.600	159.600	1920.77	12.10	- 26.42	12.83	1.85		
1986.00	9.800	166.900	1984.03	17.50	-35.70	15.54	3.84		
2048.00	11.500	173.600	2044.96	24.96	-46.98	17.42	3.39		
2111.00	13:400	174300	210648	34.43	60.49	18.85	3.03		W LITE
2174.00	15.200	171.200	2167.52	45.02	-75.91	20.84	3.10		
2238.00	16.600	172.200	2229.07	56.74	-93.26	23.36	2.23		
2301.00	17.500	174.000	2289.30	69.42	-111.60	25.57	1.66		
2364.00	18.500	174.300	2349.22	83.04	-130.97	27.56	1.59		
2428.00	17.500	175.400	2410/09	97.04	150.66	29.34	1.65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i sirika sa
2491.00	16.300	177.800	2470.36	110.38	-168.94	30.44	2.20		
2555.00	15.100	178.500	2531.98	123.32	-186.25	31.00	1.90		
2617.00	14.900	175.700	2591.86	135.12	-202.27	31.81	1.21		
2681.00	14.300	169.400	2653.80	146.08	-218.24	33.88	2.65		
2744.00	14.500	167.900	2714.82	155.91	233.60	36.96	0.67		
2807.00	14.700	169.400	2775.79	165.88	-249.17	40.09	0.68		
2870.00	15.000	170.800	2836.68	176.33	-265.08	42.86	0.74	,	i administra
2933.00	15.000	172.600	2897.54	187.22	-281.21	45.21	0.74		
2996.00	15.200	172.200	2958.36	198.34	-297.48	47.39	0.36		
3060.00	15.500	173.300	3020.08	209.89	-314.28	49.52	0.65		
3122.00	15.500	174.300	3079.82	221.40	-330.75	51.31	0.43		
3185.00	15.500	173.000	3140.53	233.07	-347.49	53.17	0.55		
3248.00	15.500	170.800	3201.24	244.37	-364.15	55.55	0.93		
3312.00	15.400	174.000	3262.93	255.91	-381.04	57.80	1.34		
3375.00	15.000	177:100	3323.73	267:74	-397.51	59.09	1.44		



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Operator Marathon Oil Company

Area Eddy County, NM

Field Indian Basin Field

Field Indian Basin

Well Smith Federal #4

Wellbore #4 PWB

WELLPATH	DATA (150 st	ations)							mann and in the second district courses and
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path Comment
3439.00	15.000	176.100	3385.55	279.82	-414.04	60.07	0.40	1	
3502.00	14.800	175.400	3446.43	291.47	-430.20	61.27	0.43		
3566.00	14.800	174.000	3508.31	303.01	-446.47	62.78	0.56		
3636.00	15.300	176.100	3575.90	315.93	-464.58	64.34	1.06		
3699.00	15.600	176.400	3636.63	328.10	-481.33	65.44	-0:49	4-11-11-11-1	Mark Comment
3762.00	15.400	175.100	3697.34	340.21	-498.11	66.69	0.64		
3825.00	14.000	176.800	3758.27	351.73	-514.06	67.83	2.33		
3888.00	13.500	175.400	3819.47	362.57	-529.00	68.84	0.95		
3952.00	13.400	176.400	3881.71	373.30	-543.84	69.91	0.40		
4014.00	13.700	179.200	3941.99	384.10	-558.36	70.46	116		
4077.00	13.700	180.700	4003.20	395.56	-573.28	70.47	0.56		
4141.00	13.500	179.600	4065.40	407.15	-588.32	70.43	0.51		
4205.00	13.700	180.300	4127.61	418.71	-603.37	70.44	0.40		
4268.00	13.900	178.900	4188.79	430.19	-618.40	70.55	0.62		The second secon
4332.00	13.500	1802100	4250.97	441.75	-633.56	70.69	0.77		as no
4395.00	13.700	182.000	4312.20	453.31	-648.37	70.41	0.78		
4459.00	14.500	180.600	4374.27	465.51	-663.95	70.06	1.36		
4523.00	14.900	179.200	4436.18	477.98	-680.19	70.10	0.84		
4586.00	14.900	176.800	4497.06	490.06	-696.38	70.66	0.98		
4650.00	14200	+1781200	4559.01	501.95	-712.44	71.37	122		
4713.00	14.000	176.800	4620.11	513.31	- 727.77	72.03	0.63		
4776.00	15.100	175.000	4681.09	524.71	- 743.55	73.17	1.89		
4840.00	15.200	175.100	4742.86	536.59	-760.22	74.62	0.16		
4903.00	15.000	175.700	4803.69	548.33	-776.58	75.93	0.40		
×4967.00	15:100	179 100	486549	A POLICE OF STREET	793.16	***************************************	0.59	Partie Carrie	
5030.00	15.300	177.500	4926.29	572.59	-809.66	77.76	0.36		
5093.00	15.500	176.000	4987.03	584.82	-826.36	78.71	0.71		
5156.00	16.500	176.400	5047.59	597.40	-843.69	79.85	1.60		
5219.00	16.300	176.100	5108.02	610.30	-861.44	81.02	0.34		
5282,00	15.700	St ART TO SE SE SENTENCE AND AND ADDRESS OF THE SENTENCE AND ADDRESS OF THE SENTENC		14. Tal. All the All the Annual Section 5	Art 14-10 - 17, 279-27 - 16 March 17, 198-45 14, 1		1:93		12,052,000
5345.00	14.200	176.100	5229.62	634.30	-894.36	83.06	1.46		<u> </u>
5407.00	14.000	176.800	5289.76	645.28	-909.43	84.00	0.42		
5470.00	13.500	177.500	5350.95	656.30	-924.39	84.74	0.84		
5534.00	14.500	175.700	5413.05	667.59	Month of the same	85.67	The same of the sa		
5597.00	15.600	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	4	679.12	-956.12				
5660.00	15.700	172.500	5534.55	690.77	-972.99	89.26	0.50	ļ	ļ
5724.00	15.800	173.600	5596.15	702.68	-990.24	91.36	0.49		
5787.00	15.200	174.300	5656.86	714.41	-1006.98	93.14	1.00		
5850.00	14.400	174.300	5717.77	725.70	-1022.99	94.74	1.27		
5913.00	15,100	175.400	5778.69	737.06	-1038.97	96.17	1.20		的形态数 是一个



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Operator Marathon Oil Company

Area Eddy County, NM

Field Indian Basin Field

Facility Indian Basin

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path Comment
5976.00	15.800	176.800	5839.41	749.20	-1055.71	97.31		·	Comment
6039.00	15.600	177.800	5900.06	761.78	-1072.74	98.11	0.53		
6102.00	16.100	178.500	5960.67	774.64	-1089.93	98.67	0.35	er per 13 mars et enem 1 met en enem 1	
6164.00	16.400	179.200	6020.19	787.75	-1107.28	99.02	0.83	or your reservoir and reservoir and the second second second second second	AND
6227.00	16.800			801.28	-1125.27	99:49	CONTRACTOR OF THE PARTY OF THE		marka de des des des des
6291.00	16.900	176.800	6141.82	814.96	-1123.27	100.36	0.48		
6356.00	16.900	176.400	6204.01	828.74	-1162.66	101.48	0.18		
6418.00	16.900	176.800	6263.33	841.89	-1180.65	102.55	0.19	The second of the second secon	
6482.00	17.100	176.800	6324.54	855.58	-1199.34	103.60	0.17		
6545:00	16,500		6384.85	868:86	-1217.51	104.68	0.97		
6609.00	16.900	177.500	6446.15	882.35	-1235.88	105.65	0.80	V 1	Self-fine and an arrangement of the self-fine and arrangement of the self-fine arrangement of the self-fi
6673.00	15.400	175.000	6507.62	895.27	-1253.64	106.80	2.58		
6737.00	15.700	175.400	6569.28	907.49	-1270.74	108.23	0.50		
6801.00	15.700	175.400	6630.89	919.87	-1288.00	109.62	0.00		
6864.00	15.300		6691.60	931.75	-1304.76	111.19			
6927.00	15.400	172.200	6752.35	943.18	-1321.31	113.21	0.73		MARKET CO. S. C.
6991.00	15.000	173.600	6814.11	954.65	-1337.96	115.29	0.85		of the processors accommon to the control of the second section of the section of the second section of the section of
7054.00	14.900	174.000	6874.98	965.95	-1354.12	117.04	0.23		
7117.00	14.800	172.900	6935.88	977.10	-1370.16	118.88	0.47		entre permitte permitte permitte entre permitte ent
7180.00	¥ 15,000	178:600	- 699 6.7 6	988125	-1386.25	120.79	0.43	ni ta ka Asa ƙ	
7243.00	14.800	174.000	7057.64	999.51	-1402.35	122.54	0.36		
7307.00	14.600	175.700	7119.55	1011.00	-1418.52	123.99	0.74		
7370.00	14.100	177.100	7180.58	1022.35	-1434.11	124.98	0.97		A STATE OF THE STA
7433.00	14.300	178.200	7241.66	1033.81	-1449.55	125.61	0.53		
7496.00	184900			104520	., -: -1464.88	- 126.24	* ± . 0.76		
7531.25†	13.624	176.721	7337.00	1051.35	-1473.26	126.69	0.82		Upper Penn
7560.00	13.400	176.400	7364.95	1056.24	-1479.96	127.09	0.82	TO A CONTRACTOR OF THE PROPERTY OF THE PARTY	
7624.00	14.000	176.100	7427.13	1067.23	-1495.08	128.08	0.94		
7686.00	14.900	177.500	7487.17	1078.56	-1510.53	128.94	1.56	1	
<i>17</i> 50.00	14.600	175.700	-7549406	1090144	1526.79	129.91			
7813.00	13.500	175.400	7610.17	1101.40	-1542.04	131.09		Tie On	
7913.00†	13.456	175.903	7707.42	1118.14	-1565.28	132.86	0.13	ļ	
7961.92†	13.434	176.150	7755.00	1126.35	-1576.63	133.65	0.13		Canyon
8013.00†	13.412	176.408	7804.68	1134.96	-1588.46	134.42	0.13		
8113.00†	The state of the s	. 176.917	7901.96	1150.87	-1611.58	135.77		A STATE OF THE PARTY OF THE SPECIAL PROPERTY OF	
8150.04†	13.355	177.107	7938.00	1158.15	-1620.13	136.21	0.13		Strawn
8213.00†	13.329	177.429	7999.26	1168.86	-1634.64	136.90	0.13	* For	
8265.14†	13.308	177.698	8050.00	1177.76	-1646.65	137.41	0.13	<u> </u>	Oil Water Contact
8285.00 8313.00†	13.300	177.800 -180.625	8069.33 8096.66	1181.15 11 85.7 6	-1651.21 -1657:28	137.59 13 7.69		KOP	

SUNDRY NOTICE SPECIAL STIPULATIONS

- 1. Approval is granted to deepen this well to 9600' TVD based on the information provide by Charles Kendrix in his 3/19/07 fax:
- 2. The well will be completed with $4\frac{1}{2}$ inch 11.6# L-80 liner and cemented to the top of the liner.

Engineering can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 3/19/07