Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

		WELLS to re-enter an	5	5. Lease Serial No. NMNM 0251099 A 6. If Indian, Allottee	
SUBMIT IN TRIPLICATE -	Other instructions of	n reverse side		7. If Unit or CA/Agre	eement, Name and/or No
1. Type of Well Oil Well X Gas Well Other 2. Name of Operator Marathon Oil Company 3a. Address P.O. Box 3487 Houston, TX 77253-348 4. Location of Well (Footage, Sec., T., R., M., or Survey)	37	b. Phone No. (include are 713-296-2096	a code)	8. Well Name and No Smith Federal 9. API Well No. 30-015-32957 10. Field and Pool, of Indian Basin M	No. 4
SHL 1511'FNL & 839' FEL, UL"H", Sec Proposed New BHL 2618' FNL & 1860' Existing BHL 2053' FSL & 701' FEL, 12. CHECK APPROPRIATE	FKL, UL"G", Sec 1: UL"I", Sec 11, T-2	1, T-22-S, R-23-E 22-S, R-23-E		11. County or Parisl Eddy ORT. OR OTHER	<u> </u>
TYPE OF SUBMISSION			E OF ACTION		
X Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Reclamation Recomplete	ly Abandon	Water Shut-Off Well Integrity Other
13. Describe Proposed or Completed Operation (clear If the proposal is to deepen directionally or recom Attach the Bond under which the work will be perfollowing completion of the involved operations. testing has been completed. Final Abandonment determined that the final site is ready for final inspection of the involved operations. The strength of the involved operations to the involved operations. Marathon Oil Company is proposing attached drilling plans, and proposing the involved operation of the involved operations.	plete horizontally, give substractioned or provide the Bor If the operation results in a Notices shall be filed only action.) To deepen the Smarting of the control of the	nurface locations and meas and No. on file with BLM/ multiple completion or re- after all requirements, inc.	ured and true ver BIA. Required s completion in a r auding reclamation	rtical depths of all perts subsequent reports shal new interval, a Form 3 on, have been complete	inent markers and zones I be filed within 30 days 160-4 shall be filed once ad, and the operator has
	CHED FUR	ONIAT.			

SEE ATTACHED FUR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	Title	0
Charles E. Kendrix	Reg Compliance F	Rep // LU
Charles E. tembring	Date 03/05/2007	APPRO
THIS SPACE FOR FEE	DERAL OR STATE OFFICE USE	7007
Approved by	Title	MA Bate
Conditions of approval, if any, are attached. Approval of this notice does not we certify that the applicant holds legal or equitable title to those rights in the sub which would entitle the applicant to conduct operations thereon.		FREDERICK WRIGHT FREDERICK WRIGHER
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crim States any false, fictitious or fraudulent statements or representations as to any m		make to kiny department or agency of the United

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

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

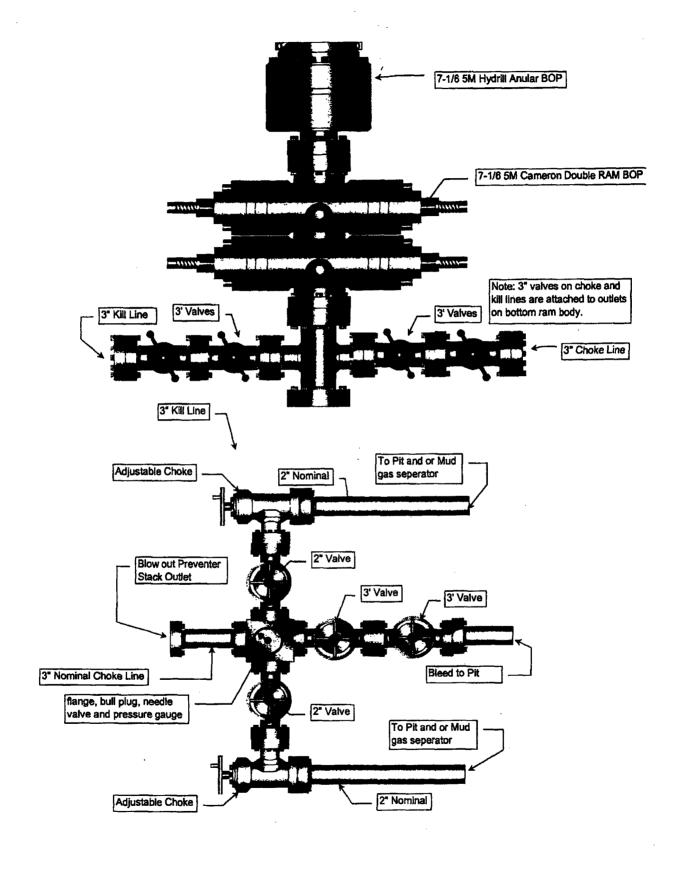
Safety:

- 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.

- 7. RIH w/ 4 ½", L-80, 11.6 # casing liner and hanger. Set hanger at \sim 7276' w/ bottom of liner @ TD \sim 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.



MARATHON OIL COMPANY

H28 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 sulfide (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.
- 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

1

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



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:	
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**

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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:

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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.

RIH with whipstock and mills. Orient and set whipstock @ ~ 8285'. Mill window and 10 ft of 5. 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'.

6. Circ high viscosity pill. Spot high viscosity pill at TD. POOH w/ BHA and pipe. RU open hole 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.
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Planned Wellpath Report Plan #1 Page 1 of 6



	THE WELLPATH IDENTIFICATION		
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		The second secon

	INFORMATION		
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	GomeOscR
Scale	0.999915	Report Generated	02/07/07 at 10:29:38
Wellbore last revised	d 02/06/07	Database/Source file	WA_Midland/#4_PWB

LOCATION										
	Local coo	rdinates	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	N - Any		433867.50	554857.50	32 31 30.826N	104 32 52.438W				
Field Reference Pt	· a rear page service and the condensating man		0.00	0.00	30 59 24.512N	105 55 44.137W				

A PATH 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°



Planned Wellpath Report

Plan #1 Page 2 of 6



ELEPATH IDENTIFICATION

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 [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path 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	·	
574.00	0.250	197.000	573.98	2.93	-3.42	-0.47	0.20	j	
884.00	0.250	199:000	883.98	4.19	-4.71	-0.89	0.00		
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]
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	10 1 mg 12 mg (m)	Table 1
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		
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	113.53	5.87	3,31		F. Janes
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	2106 48	34.43	-60.49	18.85	3.03		THE NOTES
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		175.400	2410.09	97.04	-150.66	29:34	E-300 F F 375		50 Percent
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	A STATE OF THE PARTY OF THE PAR	155.91	-233.60	36.96	0.67		4-1200
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		
2933.00	15.000	172.600	2897.54	187.22	-281.21	45.21	0.74	ļ	
2996.00	15.200	172.200	2958.36	198.34	-297.48	47.39	0.36	The same of the sa	
3060.00	15/500	173:300	The state of the s	209.89		49.52	-0:65		A CONTROL
3122.00	15.500	174.300	3079.82	221.40	-330.75	51.31	0.43	ļ	
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	-	1
3312.00 3375.00	15.400 15.000	174.000 177.100	3262.93 3323.73	255.91 267.74	-381.04 -397.51	57.80 59.09	1.34		



Planned Wellpath Report

Page 3 of 6



WELLPATH IDENTIFICATION

#4 SHL Operator Marathon Oil Company Slot

Eddy County, NM Well Smith Federal #4 Field Indian Basin Field Wellbore #4 PWB

Facility Indian Basin

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		
3502.00	14.800	175.400	3446.43	291.47	-430.20	61.27	0.43	() page 4 min 4 min 5 min 6 m	
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		e i grandi (
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	1.16		
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	A Day of the Control	
4205.00	13.700	180.300	4127.61	418.71	-603.37	70.44	0.40	The state of the s	
4268.00	13.900	178.900	4188.79	430.19	-618.40	70.55	0.62		
4332.00	13.500	1802100	4250.97	441.75	-633.56	70.69	0.77		
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	14/200	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	<i>-</i> 776.58	75.93	0.40		
+4967.00	151100	1774100	4865.49	÷ .560.44	rs 🦸 -793.16	· 76.98	0.59	i in the second	201, 1 7, 17, 17
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	15,000	17,6.800	15168.6 7	≥ 622.70	Contract of the contract of th		i 1₹93	ARTING A	2 State Process
5345.00	14.200	176.100	5229.62	634.30	-894.36	83.06	1.46		
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	-939.84	85.67	1.70		
5597.00	15.600			679.12	-956.12	87.20	1.95		
5660.00	15.700	172.500	5534.55	690.77	- 972.99	89.26	0.50		
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 5913.00	14.400 15.100	174.300	5717.77 5778.69	725.70 737.06	-1022.99	94.74	1.27		



Planned Wellpath Report

Plan #1Page 4 of 6

Well

Smith Federal #4



SENCE WELLPATH IDENTIFICATION

Operator Marathon Oil Company Slot #4_SHL

Field Indian Basin Field Wellbore #4 PWB

Facility Indian Basin

Eddy County, NM

Area

WELLPATI			and the second second second		rapolated sta	e - commence and a real	DIC		D-4L
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	1.26	-,	
6039.00	15.600	177.800	5900.06	761.78	-1072.74	98.11	0.53	n ya san mela se a ministra bahasa bahasa sa	The second secon
6102.00	16.100	178.500	5960.67	774.64	-1089.93	98.67	0.85		The statement industrial and the statement of the stateme
6164.00	16.400	179.200	6020.19	787.75	-1107.28	99.02	0.58		The second section of the second section of the second section of the second section s
6227.00	16.800	- 177.800	6080.57	801.28	-1125.27	99.49	- 0.90		Market Control of the Control
6291.00	16.900	176.800	6141.82	814.96	-1143.80	100.36	0.48		
6356.00	16.900	176.400	6204.01	828.74	-1162.66	101.48	0.18		An analysis of the contraction of the second contraction of the contra
6418.00	16.900	176.800	6263.33	841.89	-1180.65	102.55	0.19		The second secon
6482.00	17.100	176.800	6324.54	855.58	-1199.34	103.60	0.31		The second section of the sect
6545:00	16,500	176:400	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		
6673.00	15.400	175.000	6507.62	895.27	-1253.64	106.80	2.58		The state of the s
6737.00	15.700	175.400	6569.28	907.49	-1270.74	108.23	0.50		The second secon
6801.00	15.700	175.400	6630.89	919.87	-1288.00	109.62	0.00		
6864.00	15.300	173.900	6691.60	931.75	-1304.76	111.19	0.90		
6927.00	15.400	172.200	6752.35	943.18	-1321.31	113.21	0.73		
6991.00	15.000	173.600	6814.11	954.65	-1337.96	115.29	0.85	and the second	
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		
7180.00	15,000	173,600	699 67 6	98825	-1386.25	120.79	- 0143	100	
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		
7433.00	14.300	178.200	7241.66	1033.81	-1449.55	125.61	0.53		
7496.00	. 13.900	ALL OL W. Am DESCRIPTION PROMISE NAME A BALLO	730276	: 1045.20	1464:88	1,000	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		
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	
4- <i>17</i> 50:00	14.600	175.700	÷7549.06	(*) (-) white distribution of the	-1526.79	129.91		F - 1 (1 1 1 2)	
7813.00	13.500	175.400	7610.17	1101.40	-1542.04	131.09		Tie On	and the state of t
7913.00†	13.456	175.903	7707.42	1118.14	-1565.28	132.86	0.13		
7961.92†	13.434	176.150	7755.00	1126.35	-1576.63	133.65	0.13	1	Canyon
8013.00†	13.412	176.408	7804.68	1134.96	-1588.46	134.42	0.13		
8113.00†		176.917			-1611.58	135.77	21 12 24 1	7-1	
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		
8265.14†		177.698	8050.00	1177.76	-1646.65	137.41	0.13	.1	Oil Water Contact
8285.00	13.300	177.800	8069.33	1181.15	-1651.21	137.59		KOP	
8313.00+	11.736	*180.625	8096.66	1185.76	-1657.28	137.69	6.00	100	

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 4½ 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