

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

5 Form C-105
Revised March 25, 1999

WELL API NO. 30-015-32571

5. Indicate Type of Lease
STATE ☐ FEE ☐

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐ Directional ☐

b. Type of Completion:
NEW ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator
Southwestern Energy Production Company

3. Address of Operator
2350 N. Sam Houston Parkway East, Suite 300 - Houston, TX 77032

4. Well Location

Unit Letter G : 1793 Feet From The N Line and 2450 Feet From The E Line

Section 10 Township 25S Range 28E NMPM Eddy County

10. Date Spudded 02/12/03 11. Date T.D. Reached 03/06/03 12. Date Compl. (Ready to Prod.) 04/06/03 13. Elevations (DF& RKB, RT, GR, etc.) 2,963' GR 14. Elev. Casinghead 18'

15. Total Depth 6,675' 16. Plug Back T.D. 6,675' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools 0-6,675' Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 5,196-6,675' MD Delaware - Horizontal 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run

Gamma Ray

21. Was Well Cored
No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	Conductor	40'		9 sx ready mix	
9-5/8"	36#	575'	12-1/4"	300 sx	
5-1/2"	17#	5,196'	8 3/4"	426 sx	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	4,365'	

26. Perforation record (interval, size, and number)
None - Open hole horizontal completion.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL 5,196-6,675'
AMOUNT AND KIND MATERIAL USED 84180 lbs 20/40 Super LC Sand

28. PRODUCTION

Date First Production 03/29/03 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 1-3/4" Pump Well Status (Prod. or Shut-in) Prod.

Date of Test 04/06/03 Hours Tested 24 Choke Size Open Prod'n For Test Period 194 Oil - Bbl 130 Gas - MCF 185 Water - Bbl. 670 Gas - Oil Ratio

Flow Tubing Press. 50 psi Casing Pressure 50 psi Calculated 24-Hour Rate 194 Oil - Bbl. 130 Gas - MCF 185 Water - Bbl. 37 Oil Gravity - API - (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented waiting On Pipeline

Test Witnessed By

30. List Attachments

Deviation report, Survey report, Gamma Ray Log & Mud Log

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature [Signature] Printed Name Vonnie J. Cermin Title Drilling/Production Technician Date 04/16/03

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____ 625 _____	T. Canyon _____
T. Salt _____	T. Strawn _____
B. Salt _____ 2240 _____	T. Atoka _____
T. Yates _____	T. Miss _____
T. 7 Rivers _____	T. Devonian _____
T. Queen _____	T. Silurian _____
T. Grayburg _____	T. Montoya _____
T. San Andres _____	T. Simpson _____
T. Glorieta _____	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinebry _____	T. Gr. Wash _____
T. Tubb _____	T. Delaware Sand _____ 2548 _____
T. Drinkard _____	T. Bone Springs _____
T. Abo _____	T. Bell Canyon _____ 2548 _____
T. Wolfcamp _____	T. Cherry Canyon _____ 3356 _____
T. Penn _____	T. Cherry Canyon 6 _____ 4840 _____
T. Cisco (Bough C) _____	T. _____

Northwestern New Mexico

T. Ojo Alamo	T. Penn. "B"
T. Kirtland-Fruitland	T. Penn. "C"
T. Pictured Cliffs	T. Penn. "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallup	T. Ignacio Otzte
Base Greenhorn	T. Granite
T. Dakota	T.
T. Morrison	T.
T. Todilto	T.
T. Entrada	T.
T. Wingate	T.
T. Chinle	T.
T. Permian	T.
T. Penn "A"	Did not start mud log until 2159'

Did not start mud log until 2159'

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....

No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology
2200	2600	200	Anhydrite, limestone, sandstone & shale
2600	2860	260	Limestone sandstone & shale
2860	3080	220	Sandstone & shale
3080	3200	120	Limestone sandstone & shale
3200	3440	240	Sandstone & shale
3440	3630	190	Limestone sandstone & shale
3630	4230	600	Sandstone & shale
4230	4240	10	Limestone sandstone & shale
4240	4360	120	Sandstone & shale
4360	4380	20	Limestone sandstone & shale
4380	4560	180	Sandstone & shale
4560	4945	385	Limestone sandstone & shale

From	To	Thickness In Feet	Lithology



HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY Southwest Energy

REPORT
DATE
DISTRICT

W03-065

April 7, 2003

Hobbs

SUBMITTED BY

WELL COUNTY	<u>Falcon #1</u>	DEPTH FIELD	FORMATION SOURCE
SAMPLE	<u>4/5</u>	<u>4/6</u>	<u>4/7</u>
Sample Temp.	<u>63</u> °F	<u>63</u> °F	<u>63</u> °F
RESISTIVITY	<u>0.05</u>	<u>0.051</u>	<u>0.051</u>
SPECIFIC GR.	<u>1.175</u>	<u>1.170</u>	<u>1.170</u>
pH	<u>6.36</u>	<u>6.48</u>	<u>6.33</u>
CALCIUM	<u>34,000</u> mpl	<u>31,000</u> mpl	<u>33,000</u> mpl
MAGNESIUM	<u>21,600</u> mpl	<u>20,400</u> mpl	<u>21,000</u> mpl
CHLORIDE	<u>166,500</u> mpl	<u>161,000</u> mpl	<u>162,000</u> mpl
SULFATES	<u>medium</u> mpl	<u>heavy</u> mpl	<u>medium</u> mpl
BICARBONATES	<u>31</u> mpl	<u>31</u> mpl	<u>31</u> mpl
SOLUBLE IRON	<u>3</u> mpl	<u>10</u> mpl	<u>10</u> mpl
KCL	<u>Positive</u>	<u>Positive</u>	<u>Positive</u>
Sodium	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
TDS	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
OIL GRAVITY	<u>@</u> °F	<u>@</u> °F	<u>@</u> °F

REMARKS

MPL = Milligrams per liter

Resistivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: Mike Armstrong

ATTN: KURT BUTLER

Weatherford International, Inc.

Survey Report

Company: Southwestern Energy Company In Field: Birds of Prey Site: Falcon 10 Well: Well#1 Wellpath: Falcon 10 Horizontal	Date: 4/16/2003 Time: 15:27:39 Page: 1 Co-ordinate(NE) Reference: Site: Falcon 10, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,89.56Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: Birds of Prey	
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Site Centre Geomagnetic Model: igrf2000

Site: Falcon 10	
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 0.00 ft	Northing: 417218.00 ft Easting: 580277.40 ft Latitude: 32 8 48.420 N Longitude: 104 4 26.241 W North Reference: Grid Grid Convergence: 0.14 deg

Well: Well#1 Well Position: +N-S 0.00 ft Northing: 417218.00 ft +E-W 0.00 ft Easting: 580277.40 ft Position Uncertainty: 0.00 ft	Slot Name: Latitude: 32 8 48.420 N Longitude: 104 4 26.241 W
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Wellpath: Falcon 10 Horizontal Horizontal Cherry Canyon 6 Well Current Datum: SITE Magnetic Data: 2/13/2003 Field Strength: 49482 nT Vertical Section: Depth From (TVD)	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.90 deg Mag Dip Angle: 60.27 deg Direction deg
0.00 0.00 0.00	89.56

Survey: Curve_lateral#2 Company: Weatherford International, Inc Tool:	Start Date: 2/24/2003 Engineer: Fred Slayden Tied-to: From: Definitive Path
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Survey: Curve_lateral#2											
MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment	
500.00	1.46	321.00	499.95	4.96	-4.01	-3.97	0.00	0.00	0.00	9 5/8"	
4198.00	0.50	254.20	4193.33	98.14	64.92	65.67	0.04	-0.03	-1.81		
4285.00	0.70	245.60	4280.33	97.82	64.07	64.82	0.25	0.23	-9.89		
4316.00	1.00	214.60	4311.32	97.52	63.75	64.49	1.74	0.97	-100.00		
4330.00	1.15	145.02	4325.32	97.30	63.76	64.50	8.83	1.10	-497.00	KOP	
4348.00	2.50	116.20	4343.31	96.98	64.21	64.96	8.83	7.47	-160.11		
4380.00	6.10	94.90	4375.22	96.53	66.53	67.27	12.12	11.25	-66.56		
4412.00	10.00	85.10	4406.90	96.62	71.00	71.74	12.88	12.19	-30.62		
4444.00	14.30	80.10	4438.18	97.54	77.66	78.41	13.82	13.44	-15.62		
4475.00	18.40	78.90	4467.92	99.14	86.24	87.00	13.27	13.23	-3.87		
4507.00	22.60	79.30	4497.88	101.25	97.24	98.02	13.13	13.12	1.25		
4538.00	26.80	81.00	4526.04	103.45	110.00	110.79	13.74	13.55	5.48		
4570.00	30.60	83.50	4554.10	105.50	125.23	126.03	12.45	11.87	7.81		
4602.00	34.40	86.60	4581.09	106.96	142.35	143.17	12.96	11.87	9.69		
4634.00	37.60	90.30	4606.98	107.45	161.14	161.96	12.09	10.00	11.56		
4665.00	41.20	94.00	4630.93	106.69	180.79	181.61	13.86	11.61	11.94		
4697.00	44.80	97.40	4654.34	104.50	202.50	203.29	13.38	11.25	10.62		
4728.00	48.70	99.70	4675.57	101.13	224.82	225.59	13.69	12.58	7.42		
4760.00	52.90	101.10	4695.79	96.64	249.20	249.93	13.56	13.12	4.37		
4792.00	57.30	101.90	4714.10	91.41	274.91	275.60	13.90	13.75	2.50		
4823.00	61.80	102.60	4729.81	85.74	301.02	301.67	14.65	14.52	2.26		
4855.00	65.90	103.90	4743.91	79.15	328.97	329.57	13.32	12.81	4.06		
4886.00	69.60	104.60	4755.64	72.08	356.77	357.32	12.12	11.94	2.26		
4918.00	73.80	105.10	4765.69	64.30	386.13	386.62	13.21	13.12	1.56		



Weatherford International, Inc.

Survey Report

Company:	Southwestern Energy Company In	Date:	4/16/2003	Time:	15:27:39	Page:	2
Field:	Birds of Prey	Co-ordinate(NE) Reference:	Site: Falcon 10, Grid North				
Site:	Falcon 10	Vertical (TVD) Reference:	SITE 0.0				
Well:	Well#1	Section (VS) Reference:	Well (0.00N;0.00E,89.56Azi)				
Wellpath:	Falcon 10 Horizontal	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey: Curve_lateral#2

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4950.00	76.70	105.30	4773.83	56.19	415.99	416.41	9.08	9.06	0.62	
4981.00	77.20	105.30	4780.83	48.22	445.12	445.48	1.61	1.61	0.00	
5013.00	77.20	105.30	4787.92	39.98	475.22	475.51	0.00	0.00	0.00	
5045.00	76.90	105.10	4795.09	31.81	505.32	505.54	1.12	-0.94	-0.62	
5085.26	77.54	105.10	4804.00	21.58	543.22	543.37	1.59	1.59	0.00	T/O CC-6 Porosity
5108.00	77.90	105.10	4808.84	15.79	564.67	564.78	1.59	1.59	0.00	
5140.00	81.10	103.70	4814.67	7.97	595.15	595.19	10.89	10.00	-4.37	
5196.00	83.90	100.61	4821.98	-3.72	649.41	649.36	7.41	5.00	-5.52	5 1/2"
5198.00	84.00	100.50	4822.19	-4.08	651.37	651.32	7.41	5.02	-5.48	
5230.00	83.80	100.20	4825.59	-9.80	682.67	682.57	1.12	-0.62	-0.94	
5261.00	84.50	99.80	4828.75	-15.15	713.04	712.90	2.60	2.26	-1.29	
5292.00	84.40	99.80	4831.75	-20.40	743.44	743.26	0.32	-0.32	0.00	
5320.50	86.54	99.35	4834.00	-25.13	771.46	771.24	7.66	7.50	-1.56	Base CC-6
5324.00	86.80	99.30	4834.20	-25.70	774.90	774.68	7.66	7.50	-1.56	
5356.00	89.30	98.20	4835.29	-30.56	806.51	806.25	8.53	7.81	-3.44	
5387.00	90.00	98.40	4835.48	-35.03	837.18	836.89	2.35	2.26	0.65	
5419.00	89.80	98.60	4835.54	-39.76	868.83	868.50	0.88	-0.62	0.62	
5450.00	88.30	98.20	4836.05	-44.29	899.49	899.13	5.01	-4.84	-1.29	
5480.00	88.20	98.10	4836.97	-48.54	929.18	928.78	0.47	-0.33	-0.33	
5511.00	87.90	96.70	4838.02	-52.53	959.90	959.47	4.62	-0.97	-4.52	
5543.00	88.10	95.10	4839.14	-55.82	991.71	991.25	5.04	0.62	-5.00	
5575.00	87.10	93.00	4840.48	-58.08	1023.60	1023.12	7.26	-3.12	-6.56	
5607.00	87.20	93.00	4842.07	-59.75	1055.52	1055.03	0.31	0.31	0.00	
5637.00	87.10	93.00	4843.56	-61.32	1085.44	1084.94	0.33	-0.33	0.00	
5669.00	86.80	93.20	4845.26	-63.05	1117.35	1116.83	1.13	-0.94	0.62	
5699.00	86.60	93.30	4846.99	-64.75	1147.25	1146.72	0.75	-0.67	0.33	
5730.00	88.30	93.20	4848.37	-66.50	1178.17	1177.62	5.49	5.48	-0.32	
5761.00	88.40	93.00	4849.26	-68.18	1209.11	1208.55	0.72	0.32	-0.65	
5793.00	88.20	93.30	4850.21	-69.94	1241.05	1240.47	1.13	-0.62	0.94	
5824.00	88.00	93.30	4851.24	-71.72	1271.98	1271.39	0.65	-0.65	0.00	
5854.00	88.00	93.70	4852.29	-73.55	1301.90	1301.30	1.33	0.00	1.33	
5886.00	87.80	93.50	4853.46	-75.56	1333.82	1333.20	0.88	-0.62	-0.62	
5917.00	87.50	93.50	4854.73	-77.45	1364.74	1364.10	0.97	-0.97	0.00	
5949.00	87.30	93.50	4856.18	-79.40	1396.64	1395.99	0.62	-0.62	0.00	
5979.00	87.30	94.20	4857.60	-81.41	1426.54	1425.87	2.33	0.00	2.33	
6010.00	89.30	95.60	4858.52	-84.06	1457.41	1456.72	7.87	6.45	4.52	
6041.00	89.80	96.30	4858.76	-87.27	1488.24	1487.53	2.77	1.61	2.26	
6073.00	89.80	96.50	4858.87	-90.84	1520.04	1519.30	0.62	0.00	0.62	
6105.00	89.00	94.40	4859.21	-93.88	1551.90	1551.13	7.02	-2.50	-6.56	
6136.00	89.00	94.20	4859.75	-96.20	1582.80	1582.02	0.65	0.00	-0.65	
6168.00	89.20	94.20	4860.25	-98.54	1614.71	1613.91	0.62	0.62	0.00	
6199.00	89.00	94.00	4860.74	-100.76	1645.63	1644.81	0.91	-0.65	-0.65	
6231.00	88.60	93.80	4861.41	-102.94	1677.55	1676.71	1.40	-1.25	-0.62	
6262.00	88.50	93.50	4862.19	-104.91	1708.48	1707.62	1.02	-0.32	-0.97	
6294.00	88.10	93.30	4863.14	-106.81	1740.41	1739.54	1.40	-1.25	-0.62	
6326.00	87.90	93.30	4864.26	-108.65	1772.33	1771.45	0.62	-0.62	0.00	
6357.00	87.80	93.20	4865.42	-110.40	1803.26	1802.36	0.46	-0.32	-0.32	
6388.00	87.80	93.30	4866.61	-112.16	1834.19	1833.27	0.32	0.00	0.32	
6420.00	88.00	94.00	4867.78	-114.20	1866.10	1865.17	2.27	0.62	2.19	
6451.00	88.00	94.20	4868.86	-116.41	1897.00	1896.06	0.64	0.00	0.65	
6482.00	88.00	94.00	4869.95	-118.63	1927.91	1926.94	0.64	0.00	-0.65	
6514.00	87.90	94.00	4871.09	-120.86	1959.81	1958.82	0.31	-0.31	0.00	
6544.00	88.10	94.40	4872.14	-123.05	1989.71	1988.71	1.49	0.67	1.33	



Weatherford International, Inc.

Survey Report

Company: Southwestern Energy Company In Field: Birds of Prey Site: Falcon 10 Well: Well#1 Wellpath: Falcon 10 Horizontal	Date: 4/16/2003 Co-ordinate(NE) Reference: Site: Falcon 10, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,89.56Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Curve_lateral#2

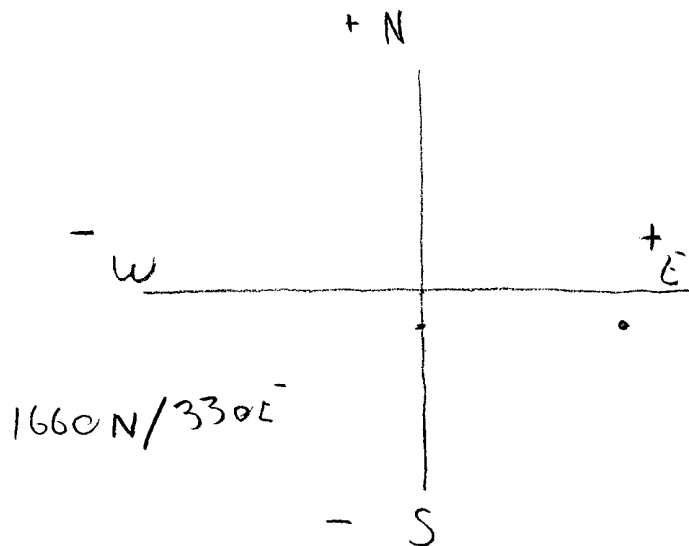
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6576.00	88.10	94.40	4873.20	-125.51	2021.60	2020.57	0.00	0.00	0.00	
6675.00	88.10	94.40	4876.48	-133.10	2120.25	2119.17	0.00	0.00	0.00	

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
500.00	499.95	9.625	12.250	9 5/8"
5196.00	4821.98	5.500	8.750	5 1/2"

Annotation

MD ft	TVD ft	
4330.00	4325.32	KOP
5085.26	4804.00	T/O CC-6 Porosity
5320.50	4834.00	Base CC-6



OPERATOR: Southwestern Energy Prod. Co.
WELL/LEASE: Falcon 10 #1
COUNTY: Eddy

510-5043

STATE OF NEW MEXICO
DEVIATION REPORT

254	0.25	4,538	26.80
650	1.90	4,570	30.60
741	2.00	4,602	34.40
832	2.10	4,634	37.60
924	3.30	4,665	41.20
1,019	2.90	4,697	44.80
1,210	3.30	4,728	48.70
1,809	4.90	4,760	52.90
1,904	5.70	4,792	57.30
1,935	5.50	4,823	61.80
1,967	5.10	4,854	65.90
1,999	4.80	4,886	69.60
2,031	4.60	4,918	73.80
2,190	5.10	4,950	76.70
2,221	5.20	4,981	77.20
2,348	5.00	5,031	77.20
2,379	4.40	5,044	76.90
2,410	3.90	5,077	77.10
2,442	3.30	5,107	77.90
2,542	2.40	5,140	81.10
2,632	1.90	5,198	84.00
2,692	1.70	5,230	83.80
2,790	1.60	5,261	84.50
3,050	1.75	5,324	86.80
3,366	0.50	5,356	89.30
3,772	0.75	5,387	90.00
4,198	0.50	5,543	88.10
4,292	0.80	5,575	87.20
4,413	1.10	5,607	87.20
4,444	0.30	5,886	87.80
4,475	3.30	5,917	87.50
4,507	6.90	5,949	87.30
4,576	14.60	6,168	89.20
4,602	18.70	6,199	89.00
4,634	22.50	6,231	88.60
4,665	26.00	6,482	88.00
4,697	29.50	6,514	87.90
4,728	32.50	6,544	88.10
4,760	35.10		
4,791	38.00		
4,822	40.00		
CEMENTED BACK			
4,316	1.00		
4,348	2.50		
4,380	6.10		
4,412	10.00		
4,444	14.30		
4,507	22.60		

By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 7th day of March, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 4/08/2007

Joni D. Hodges
Notary Public for Midland County, Texas

