

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NM 15295

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ CAR WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____

2. NAME OF OPERATOR

Gruy Petroleum Management Co.

3. ADDRESS AND TELEPHONE NO.

P O Box 140907 Irving Tx. 75014-0907

4. LOCATION OF WELL (Report location clearly and in accordance with any State instructions on recording)

At surface 2495' FNL & 1415' FEL

At top prod. interval reported below 1434' FNL & 984' FEL

At total depth 1275' FNL & 906' FEL

RECEIVED

FFR 10 2005

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH
Eddy

13. STATE
NM

15. DATE SPUDDED

06-05-04

16. DATE T.D. REACHED

07-13-04

17. DATE COMPL. (Ready to prod.)

01-06-05

18. ELEVATIONS (DF, RKB, RT, GR, ETC.) *

3759' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

MD 12350' TVD 12122'

21. PLUG, BACK T.D., MD & TVD

MD 12309' TVD 12080'

22. IF MULTIPLE COMPL., HOW MANY *

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

All

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) *

MD 11844' - 11912' Carlsbad South; Morrow

TVD 11650' - 11713' Carlsbad South; Morrow

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Spaced Neutron, DLL Microguard, Cement Bond Log

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 - 3/8" J-55	54.5#	403'	17-1/2"	490 sx PremPlus circ 221 sx	
9-5/8" P110/J55	40#	1517'	12-1/4"	700 sx IntC/PremPlus TOC 1270'	
				one-inched to surface with 550 sx IntC	
P-110/NS-110	17#	12364'	8-3/4"	2950 sx IntH/SupH/IntC/PrmNeat TOC 2295'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT *	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	11603'	11603'

31. PERFORATION RECORD (Interval, size and number)

12050' - 12064' 6 SPF 84 HOLES Set Comp Plug @ 11950' w/ 1 sx sand

11844' - 11912' 6 SPF 96 HOLES

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12050' - 12064'	37000gal 70-61Q H2O/28000# 18/40 VProp
11844' - 11912'	57000gal foam gel CO2/39000# 18/40 VProp

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
01-06-05		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
01-19-05	24	24/64	→	-0-	1607	42	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1800	1400	→	-0-	1607	42	NA	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

35. LIST OF ATTACHMENTS

NM C-122, Electric logs and Inclination Summary

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Natalie Kuege

TITLE

Regulatory Analyst

DATE

February 4, 2005

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-33420	Pool Code	Pool Name Carlsbad South; Morrow
Property Code	Property Name CK 7 Federal	Well Number 1
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3759'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	24-S	26-E		2495'	NORTH	1415'	EAST	EDDY

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
A	7	24-S	26-E		1275'	NORTH	906'	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
320	Y								

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

LOT 1

LOT 2

LOT 3

LOT 4

CK 7 Fed 1

CK 7 Fed 2

GEODETIC COORDINATES
NAD 27 NME
Y= 448078.4 N
X= 501632.0 E
LAT.= 32°13'54.78"N
LONG.= 104°19'41.00"W

Well Locations:
SHL (South Hole)
BHL (Bottom Hole)

Penetration Points:
Penetration Pt.

Dimensions:
1275'
906'
1527'
2495'
1322'
1026'
3764.3'
3757.4'
600'
3743.7'
3739.9'
1415'
1244'
1237'
1238'
2760'
1526'

OPERATOR CERTIFICATION	
I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.	
Zeno Farris	Signature
Zeno Farris	Printed Name
Mgr Operations Admin.	Title
February 4, 2005	Date
SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.	
September 02, 2003	Date Surveyed
GARY EIDSON	AWB
Gary Eidson	Signature & Seal
GARY EIDSON	Professional Surveyor
9/4/03	Date
03.11.0936	Stamp
Certificate No. GARY EIDSON	12541

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Bone Springs	5660'	
				Strawn	10650'	
				Atoka	11153'	
				Morrow	11563'	

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

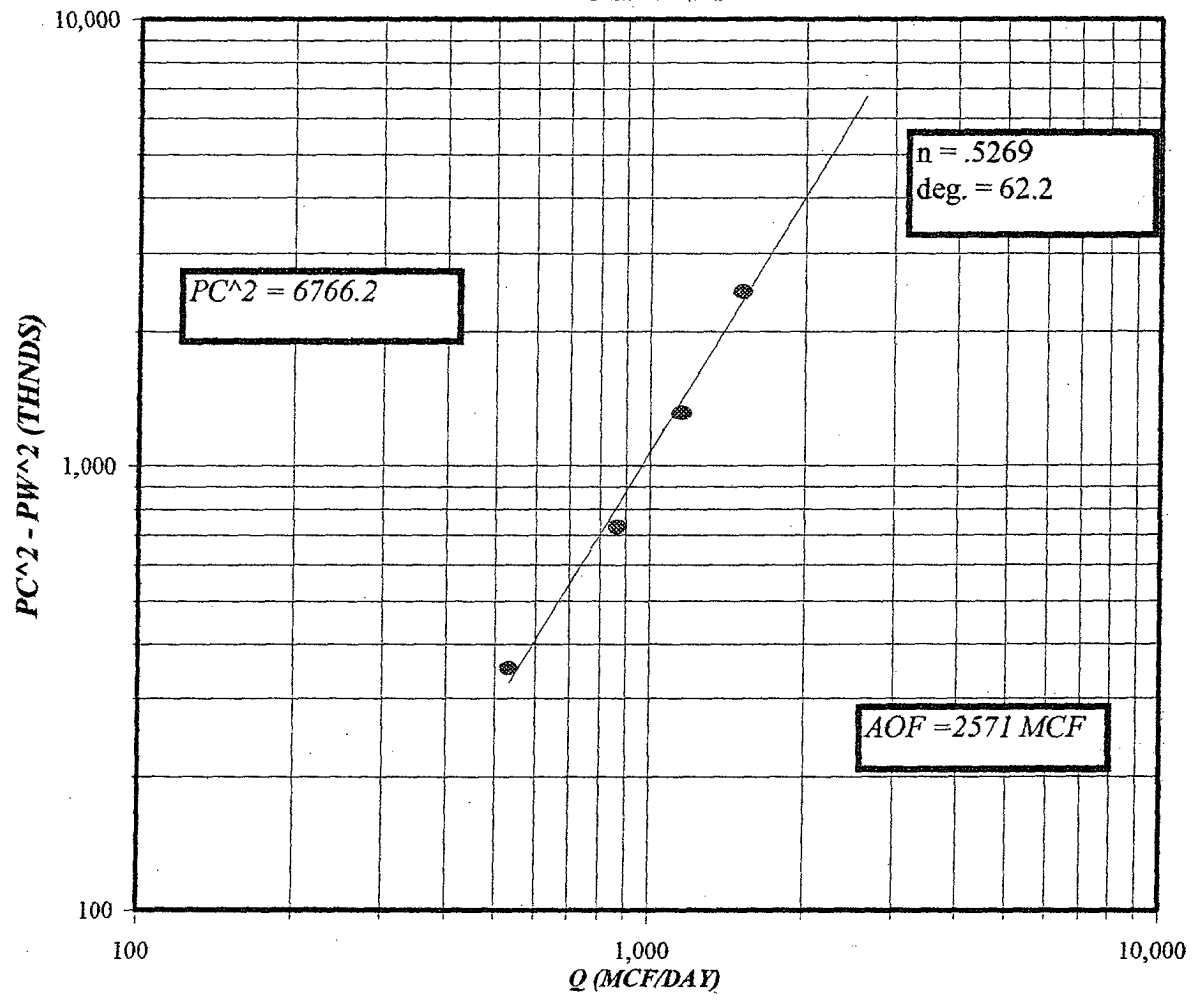
Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PETROLEUM					Lease or Unit Name CK "7"				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/19/05		Well No. 1		
Completion Date 12/17/04		Total Depth 12350		Plug Back TD 12309		Elevation		Unit Ltr - Sec - TWP - Rge	
Csg. Size 5 1/2	Wt. 17 #	d 4.892	Set At 11950	Perforations: From: 11844 To: 11912			County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11603	Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11603			Formation		
Producing Thru TBG		Reservoir Temp. °F 190.0 @ 11603	Mean Annual Temp. °F 60	Baro. Press. -P _a 13.2			Connection SALES		
L 11604	H 11604	Gg 0.583	%CO ₂ 1.506	%N ₂ 0.338	%H ₂ S X	Prover N/A	Meter Run 4.026	Taps FLG	
FLOW DATA				TUBING DATA			CASING DATA		
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F
SI						2588		PKR	
1	4 X	2.000	232	1.7	61	2519		"	
2	4 X	2.000	233	4.4	70	2442		"	
3	4 X	2.000	245	8	74	2318		"	
4	4 X	2.000	253	12.7	74	2056		"	
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd	
1								533	
2								864	
3				TOTAL		FLOW	METER	1,148	
4								1,508	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mef bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.				
2					Specific Gravity Separator Gas 0.583 XXXXXXXX				
3		N/A			Specific Gravity Flowing Fluid XXXXXX				
4					Critical Pressure * 675 P.S.I.A. P.S.I.A.				
5					Critical Temperature * 347 R R				
P _c 2601.2 P _{c2} 6766.2									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.752}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.705}{\quad}$				
1		2532.9	6415.4	350.9					
2		2457	6036.7	729.5					
3		2334.5	5449.8	1316.5					
4		2075.5	4307.9	2458.4					
5									
79825					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.571}{\quad}$				
Absolute Open Flow 2.571					Mcf @ 15.025 Angle of Slope (°) 62.2 Slope n: 0.5269				
Remarks: NO FLUID CORRECTED TO 1.506 % CO2									
Approved By Division:			Conducted By: Pro Well Testing & Wire Line		Calculated By: BM			Checked By: BM	

GRUY PETROLEUM

CK "7" # 1





Laboratory Services, Inc.

2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION CK 7 #1
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED 1/19/05 12:00 pm
ANALYSIS DATE: 1/20/05
PRESSURE - PSIG 250
SAMPLE TEMP. °F 74
ATMOS. TEMP. °F 60

GAS (XX) LIQUID ()
SAMPLED BY: J. Rice
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.338	
Carbon Dioxide (CO2)	1.506	
Methane (C1)	96.284	
Ethane (C2)	1.480	0.395
Propane (C3)	0.180	0.049
I-Butane (IC4)	0.023	0.008
N-Butane (NC4)	0.028	0.009
I-Pentane (IC5)	0.015	0.005
N-Pentane (NC5)	0.010	0.004
Hexane Plus (C6+)	<u>0.136</u>	<u>0.059</u>
	100.000	0.529
BTU/CU.FT. - DRY	1012	MOLECULAR WT. 16.8995
AT 14.650 DRY	1009	
AT 14.650 WET	992	
AT 14.73 DRY	1015	
AT 14.73 WET	997	
SPECIFIC GRAVITY -		
CALCULATED	0.583	
MEASURED		

OPERATOR: GRUY PETROLEUM
WELL/LEASE: C&K 7 FED 1
COUNTY: EDDY, NM

080-0024

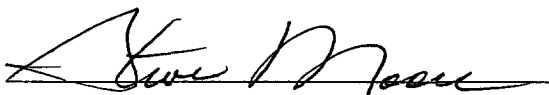
STATE OF NEW MEXICO
DEVIATION REPORT

200	3/4
403	1/4
681	1 1/4
896	1
1,694	1/2
2,175	1
3,030	3/4
3,576	1/4
4,076	3/4
4,563	1
5,044	1 1/2
5,543	4
5,860	3
6,111	2 3/4
6,599	2 1/2
7,107	1 1/2

RECEIVED

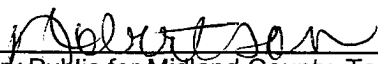
AUG 16 2004

MAILROOM

By: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 5th day of August, 2004, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.



Notary Public for Midland County, Texas

My Commission Expires: 8/23/2007



Gruy Petroleum Management Co.
New Mexico
Eddy County
Sec. 07-T24S-R26E
CK 7 Federal # 1 - MWD Surveys

Sperry-Sun

Survey Report

14 July, 2004

Data Source: Information from Location

Survey Ref: svy7684

Prepared by: Admin
Checked by:
Approved by:

HALLIBURTON

Survey Report for Sec. 07-T24S-R26E - CK 7 Federal # 1 - MWD
Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Grid Azim. (Deg)	Station Coordinates			Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
TVD (ft)	Northings (ft)	Eastings (ft)						
7400.00	0.800	264.680	7398.05	91.45 S	31.45 W	-96.60		
7420.00	0.710	272.190	7418.05	91.46 S	31.71 W	-96.70	0.67	1st MWD Survey @ 7420' md
7516.00	2.680	17.560	7514.01	89.30 S	31.63 W	-94.66	3.07	
7611.00	5.380	30.300	7608.77	83.33 S	28.71 W	-88.04	2.98	
7706.00	7.580	33.430	7703.16	74.26 S	23.01 W	-77.50	2.34	
7802.00	8.880	30.710	7798.17	62.60 S	15.74 W	-63.99	1.41	
7897.00	9.760	27.370	7891.91	49.15 S	8.29 W	-48.73	1.09	
7993.00	11.770	23.930	7986.22	32.97 S	0.58 W	-30.85	2.20	
8097.00	12.890	22.840	8087.82	12.58 S	8.23 E	-8.65	1.10	
8192.00	14.150	25.090	8180.19	7.70 N	17.26 E	13.54	1.44	
8287.00	14.330	25.260	8272.27	28.85 N	27.20 E	36.86	0.19	
8383.00	16.170	24.030	8364.88	51.81 N	37.72 E	62.08	1.95	
8446.00	17.840	22.450	8425.13	68.74 N	44.98 E	80.49	2.75	
8478.00	18.280	21.920	8455.55	77.92 N	48.72 E	90.41	1.47	
8510.00	18.020	22.100	8485.96	87.17 N	52.46 E	100.38	0.83	
8605.00	17.050	22.270	8576.54	113.67 N	63.26 E	129.00	1.02	
8668.00	16.990	20.560	8636.78	130.83 N	70.00 E	147.44	0.80	
8732.00	18.480	20.720	8697.74	149.08 N	76.87 E	166.93	2.33	
8795.00	18.030	20.220	8757.57	167.57 N	83.77 E	186.66	0.76	
8859.00	16.920	21.770	8818.62	185.51 N	90.65 E	205.88	1.88	
8922.00	17.230	21.780	8878.84	202.69 N	97.51 E	224.37	0.49	
8986.00	17.370	21.080	8939.94	220.40 N	104.46 E	243.41	0.39	
9049.00	17.300	21.750	9000.08	237.88 N	111.32 E	262.18	0.34	
9120.00	17.930	22.260	9067.75	257.80 N	119.37 E	283.66	0.91	
9184.00	15.610	25.530	9129.03	274.69 N	126.81 E	302.11	3.91	
9253.00	14.410	27.530	9195.67	290.68 N	134.78 E	319.91	1.89	
9285.00	13.100	28.340	9226.75	297.40 N	138.35 E	327.48	4.14	
9317.00	12.130	28.430	9257.98	303.55 N	141.67 E	334.42	3.03	
9348.00	11.950	28.070	9288.30	309.25 N	144.73 E	340.84	0.63	
9380.00	12.660	28.070	9319.56	315.26 N	147.94 E	347.62	2.22	
9412.00	13.800	27.020	9350.71	321.76 N	151.32 E	354.90	3.64	
9444.00	14.940	27.370	9381.71	328.82 N	154.95 E	362.81	3.57	
9475.00	16.000	27.720	9411.59	336.15 N	158.78 E	371.03	3.43	
9507.00	16.170	27.370	9442.34	344.01 N	162.88 E	379.85	0.61	
9539.00	16.790	27.720	9473.02	352.06 N	167.07 E	388.88	1.96	
9571.00	17.420	27.560	9503.61	360.40 N	171.44 E	398.24	1.97	
9602.00	18.230	26.110	9533.12	368.87 N	175.72 E	407.69	2.98	
9634.00	18.940	24.770	9563.45	378.08 N	180.10 E	417.87	2.59	
9666.00	19.410	23.610	9593.67	387.67 N	184.41 E	428.37	1.89	
9697.00	19.510	23.150	9622.90	397.15 N	188.50 E	438.69	0.59	
9729.00	18.980	23.860	9653.11	406.82 N	192.71 E	449.24	1.81	
9761.00	18.810	22.270	9683.39	416.35 N	196.77 E	459.59	1.69	
9793.00	18.980	20.870	9713.67	425.99 N	200.58 E	469.96	1.51	
9825.00	18.190	20.690	9744.00	435.52 N	204.20 E	480.15	2.48	
9856.00	17.750	21.040	9773.49	444.46 N	207.60 E	489.72	1.46	

Survey Report for Sec. 07-T24S-R26E - CK 7 Federal # 1 - MWD Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Grid Azim. (Deg)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
9888.00	17.490	22.100	9803.98	453.47 N	211.16 E	499.40	1.29	
9920.00	16.610	24.030	9834.58	462.10 N	214.84 E	508.78	3.27	
9952.00	16.260	26.320	9865.27	470.29 N	218.68 E	517.82	2.30	
9983.00	16.080	26.840	9895.04	478.02 N	222.55 E	526.42	0.75	
10015.00	16.700	27.200	9925.74	486.06 N	226.65 E	535.41	1.96	
10047.00	17.580	27.020	9956.32	494.45 N	230.95 E	544.80	2.75	
10079.00	17.670	26.490	9986.82	503.11 N	235.31 E	554.45	0.57	
10111.00	17.750	24.210	10017.30	511.90 N	239.47 E	564.16	2.18	
10143.00	18.370	23.150	10047.73	520.99 N	243.46 E	574.08	2.19	
10174.00	18.900	22.630	10077.10	530.11 N	247.31 E	583.98	1.79	
10206.00	18.980	22.270	10107.37	539.71 N	251.28 E	594.36	0.44	
10238.00	18.980	23.330	10137.63	549.31 N	255.31 E	604.77	1.08	
10270.00	18.720	22.450	10167.91	558.83 N	259.33 E	615.11	1.20	
10302.00	18.460	21.570	10198.24	568.29 N	263.15 E	625.31	1.20	
10332.00	18.460	20.520	10226.70	577.15 N	266.57 E	634.81	1.11	
10364.00	18.280	17.530	10257.07	586.68 N	269.85 E	644.88	3.00	
10396.00	17.750	14.190	10287.50	596.20 N	272.56 E	654.72	3.63	
10428.00	18.280	11.900	10317.93	605.84 N	274.79 E	664.50	2.76	
10460.00	17.840	9.970	10348.36	615.58 N	276.67 E	674.24	2.32	
10491.00	16.440	8.740	10377.98	624.59 N	278.16 E	683.17	4.66	
10523.00	16.440	7.680	10408.67	633.55 N	279.46 E	691.98	0.94	
10555.00	17.490	6.980	10439.28	642.81 N	280.65 E	701.02	3.34	
10587.00	18.110	7.860	10469.75	652.51 N	281.91 E	710.50	2.11	
10619.00	18.280	9.440	10500.15	662.39 N	283.41 E	720.24	1.63	
10650.00	18.540	11.380	10529.56	672.02 N	285.18 E	729.84	2.15	
10682.00	18.900	11.020	10559.87	682.09 N	287.18 E	739.93	1.18	
10714.00	19.600	9.790	10590.08	692.47 N	289.08 E	750.28	2.53	
10746.00	20.390	9.270	10620.15	703.26 N	290.89 E	760.98	2.53	
10777.00	20.390	11.020	10649.21	713.89 N	292.79 E	771.56	1.97	
10809.00	19.990	13.000	10679.24	724.69 N	295.09 E	782.44	2.47	
10841.00	19.980	14.550	10709.31	735.31 N	297.69 E	793.27	1.66	
10872.00	20.210	15.590	10738.43	745.60 N	300.46 E	803.85	1.37	
10904.00	20.570	17.180	10768.42	756.29 N	303.61 E	814.95	2.06	
10936.00	21.090	18.060	10798.33	767.14 N	307.06 E	826.30	1.90	
10968.00	21.270	19.810	10828.17	778.07 N	310.81 E	837.85	2.05	
11000.00	21.360	20.870	10857.98	788.98 N	314.85 E	849.48	1.24	
11032.00	21.530	21.920	10887.77	799.87 N	319.12 E	861.18	1.31	
11063.00	21.530	22.270	10916.60	810.41 N	323.40 E	872.56	0.41	
11095.00	21.360	22.100	10946.39	821.24 N	327.82 E	884.25	0.57	
11127.00	21.110	22.570	10976.21	831.97 N	332.22 E	895.84	0.95	
11159.00	20.440	22.750	11006.13	842.44 N	336.59 E	907.19	2.10	
11190.00	20.290	23.910	11035.20	852.35 N	340.86 E	917.98	1.39	
11222.00	20.660	23.440	11065.17	862.60 N	345.36 E	929.16	1.27	
11255.00	21.090	21.920	11096.01	873.45 N	349.89 E	940.92	2.10	
11287.00	20.830	21.040	11125.89	884.10 N	354.08 E	952.36	1.28	

Survey Report for Sec. 07-T24S-R26E - CK 7 Federal # 1 - MWD Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Grid Azim. (Deg)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
11318.00	19.600	20.870	11154.98	894.10 N	357.91 E	963.08	3.97	
11350.00	19.510	21.040	11185.14	904.10 N	361.74 E	973.79	0.33	
11382.00	19.600	22.630	11215.29	914.04 N	365.73 E	984.49	1.69	
11414.00	19.780	22.980	11245.42	923.98 N	369.91 E	995.27	0.67	
11445.00	20.300	22.980	11274.54	933.76 N	374.05 E	1005.89	1.68	
11477.00	19.860	24.910	11304.60	943.80 N	378.51 E	1016.87	2.49	
11509.00	20.130	24.560	11334.67	953.74 N	383.09 E	1027.80	0.92	
11541.00	20.480	24.210	11364.68	963.86 N	387.67 E	1038.89	1.16	
11572.00	21.090	24.030	11393.66	973.90 N	392.17 E	1049.88	1.98	
11604.00	20.920	23.500	11423.54	984.39 N	396.79 E	1061.34	0.80	
11636.00	21.270	22.450	11453.39	995.00 N	401.29 E	1072.86	1.61	
11668.00	21.010	21.920	11483.24	1005.68 N	405.64 E	1084.40	1.01	
11700.00	20.570	23.680	11513.15	1016.15 N	410.04 E	1095.75	2.39	
11731.00	20.480	24.210	11542.19	1026.09 N	414.46 E	1106.61	0.67	
11763.00	21.270	24.030	11572.09	1036.49 N	419.11 E	1118.01	2.48	
11795.00	21.880	24.560	11601.84	1047.22 N	423.96 E	1129.76	2.00	
11827.00	21.450	25.610	11631.58	1057.92 N	428.96 E	1141.55	1.81	
11858.00	20.920	27.370	11660.49	1067.94 N	433.96 E	1152.72	2.67	
11890.00	20.390	28.600	11690.43	1077.91 N	439.25 E	1163.93	2.14	
11922.00	20.300	28.600	11720.43	1087.68 N	444.58 E	1174.98	0.28	
11953.00	20.480	28.600	11749.49	1097.16 N	449.75 E	1185.70	0.58	
11985.00	21.880	27.200	11779.33	1107.38 N	455.15 E	1197.19	4.65	
12017.00	22.590	26.320	11808.95	1118.19 N	460.61 E	1209.26	2.45	
12048.00	21.800	24.740	11837.65	1128.76 N	465.65 E	1220.94	3.19	
12080.00	21.010	24.910	11867.45	1139.36 N	470.56 E	1232.60	2.48	
12112.00	20.130	25.970	11897.41	1149.51 N	475.38 E	1243.82	2.99	
12143.00	19.250	27.020	11926.59	1158.86 N	480.04 E	1254.23	3.06	
12175.00	19.160	26.840	11956.81	1168.25 N	484.81 E	1264.71	0.34	
12206.00	19.070	26.490	11986.10	1177.32 N	489.37 E	1274.82	0.47	
12238.00	19.420	25.440	12016.31	1186.80 N	493.98 E	1285.34	1.54	
12269.00	19.510	25.090	12045.54	1196.14 N	498.39 E	1295.65	0.48	
12295.00	18.810	24.740	12070.10	1203.88 N	501.99 E	1304.17	2.73	Last MWD Survey @ 12295' md
12350.00	18.810	24.740	12122.17	1219.99 N	509.41 E	1321.88	0.00	Projection to TD @ 12350' md

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Wellhead and calculated along an Azimuth of 21.687° (Grid).

Coordinate System is NAD27 New Mexico State Planes, Eastern Zone.

Grid Convergence at Surface is 0.003°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12350.00ft., The Bottom Hole Displacement is 1322.07ft., in the Direction of 22.663° (Grid).

HALLIBURTON

Gruy Petroleum Management Co.

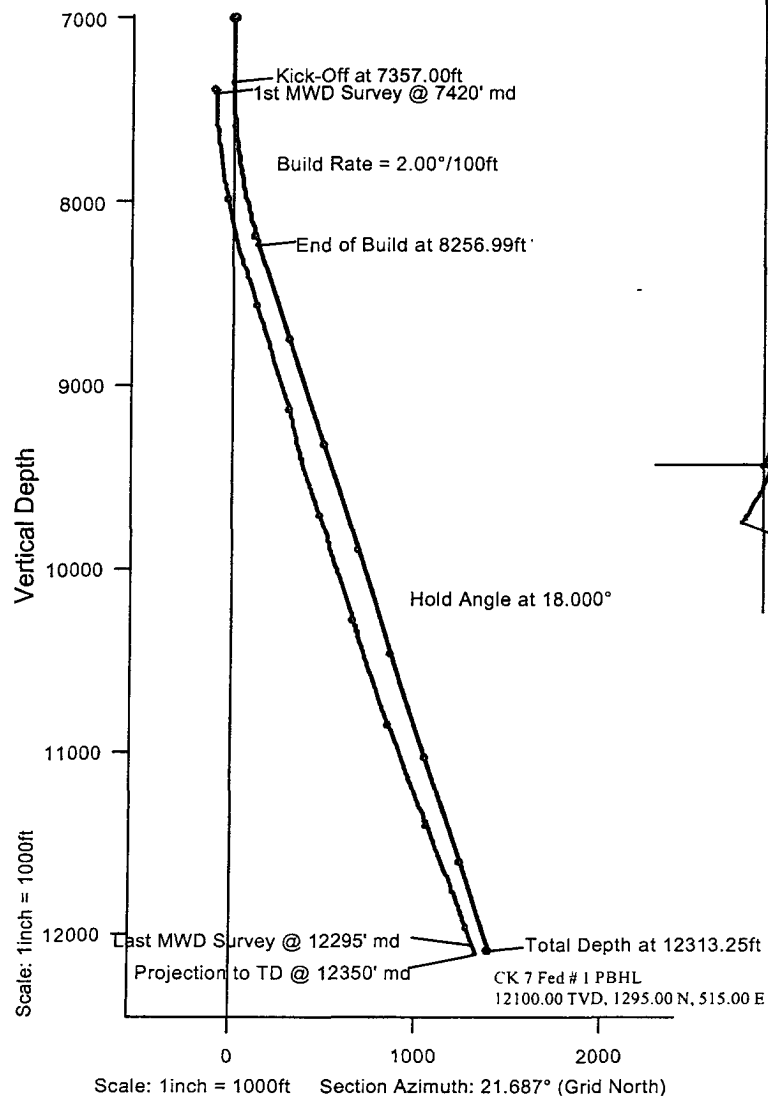
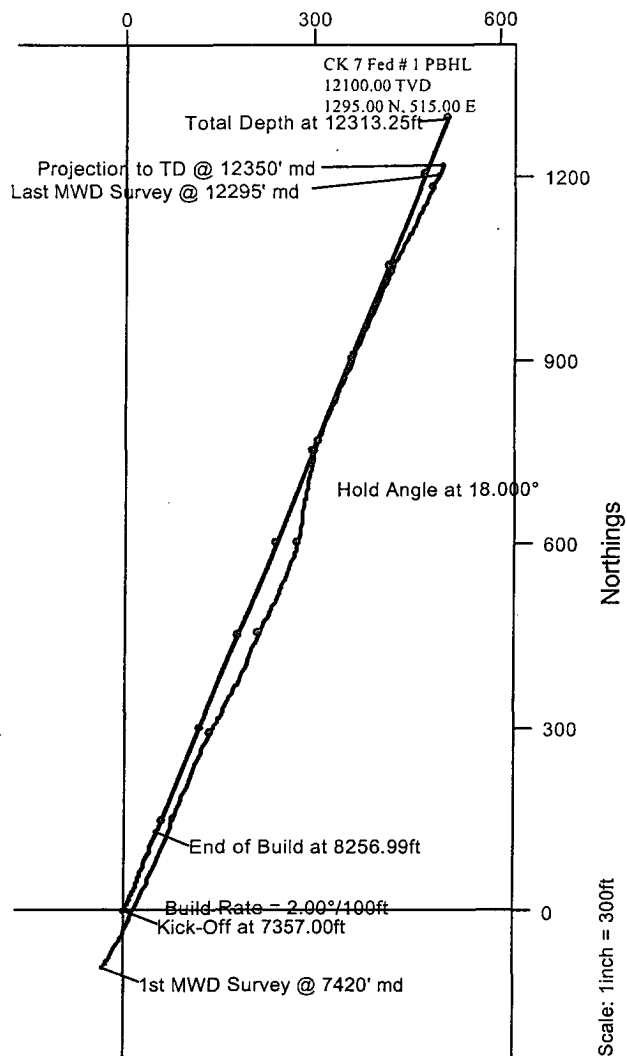
DrillQuest

Sperry-Sun

New Mexico
Eddy County
Sec. 07-T24S-R26E
CK 7 Federal # 1



Eastings
Scale: 1 inch = 300ft



Scale: 1 inch = 1000ft Section Azimuth: 21.687° (Grid North)

Vertical Section

Prepared by:
Admin

Date/Time:
14 July, 2004 - 16:26

Checked:

Approved: