

UNITED STATES
DEPARTMENT OF THE INTERIOR **OCD-ARTESIA**
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2 Name of Operator
DAVID H. ARRINGTON OIL & GAS INC

3. Address
PO BOX 2071 MIDLAND TX 79702

3.a Phone No. (Include area code)
(432)682-6685

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

At Surface 700' FSL & 660' FEL

At top prod. interval reported below

At total depth 688' FSL & 772' FWL

AUG 15 2007
OCD-ARTESIA

14. Date Spudded

03/27/2007

15. Date T.D. Reached

05/01/2007

16 Date Completed

☐ D & A ☒ Ready to Prod.
07/21/2007

18 Total Depth: MD 8409'
TVD 4710'

19. Plug Back T.D.: MD
TVD

20. Depth Bridge Plug Set: MD OH Whipstock
TVD @ 4270'

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
Gamma Ray

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8" J55	32#	0	1323'		490 sx C		Surf - CIR	CIR 201 sx
7 7/8"	5 1/2"	17#	0	8409'		960 sx C		Surf - CIR	CIR 115 sx

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	4239'	4216'						

25. Producing Intervals**26. Perforation Record**

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Wolfcamp	4590'		5512-8348' MD	0.42	258	Producing
B)						
C)						
D)						

27 Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7700-8348'	4000 gal 15% acid & 204000 gal FW & 80000# proppant
7118-7448'	4000 gal 15% acid & 187509 gal FW & 80300# proppant
5926-6372'	4000 gal 15% acid & 176690 gal FW & 72300# proppant
5512-5860'	4000 gal 15% acid & 234236 gal FW & 54300# proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
7/25/07	7/29/07	24	→	0	545	8	NA	0.6726	640 Pumping Unit
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
AUG 13 2007
JERRY FANT
PETROLEUM GEOLOGIST

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

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

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas Depth
				San Andres	235'
				Glorietta	1550'
				Blinberry	2230'
				Tubb	2900'
				Abo Shale	3582'
				Abo Carb	3784'
				Wolfcamp	4590'

32 Additional remarks (include plugging procedure)

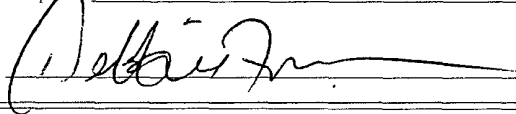
33 Indicate which items have been attached by placing a check in the appropriate boxes.

☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geological Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
☐ Core Analysis
☒ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) DEBBIE FREEMANTitle ENGINEER TECH

Signature


Date 08/09/2007

Title 18 U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34834	² Pool Code 75250	³ Pool Name Cottonwood Creek; Wolfcamp (Gas)
⁴ Property Code 35638	⁵ Property Name CHARTREUSE SPANKER (AS-DRILLED)	⁶ Well Number 1H
⁷ OGRID No. 5898	⁸ Operator Name DAVID H. ARRINGTON OIL & GAS, Inc.	⁹ Elevation 3938'

¹⁰ Surface Location

UL or lot no. P	Section 34	Township 17 SOUTH	Range 23 EAST, N.M.P.M.	Lot Idn	Feet from the 700'	North/South line SOUTH	Feet from the 660'	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 34	Township 17 SOUTH	Range 23 EAST, N.M.P.M.	Lot Idn	Feet from the 688'	North/South line SOUTH	Feet from the 772'	East/West line WEST	County EDDY
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

BOTTOMHOLE AND AS-DRILLED INFORMATION PROVIDED BY DAVID H. ARRINGTON OIL & GAS NAD 27 NME ZONE X = 395673 Y = 649897 LAT.: N 32.7861980 LONG.: W 104.6728066 PROJECT AREA PRODUCING AREA BHL X = 391828 Y = 649864 LAT.: N 32.7860709 LONG.: W 104.6853151 PENETRATION POINT X = 395581 Y = 649921 LAT.: N 32.7862623 LONG.: W 104.6731046 772' 688' 724' 700' 660' 752'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Debbie Freeman</i> Signature Debbie Freeman Printed Name Eng. Tech. Title 6/12/07 Date ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief. 7920 SEPTEMBER 25, 2006 Date of Survey Signature and Seal of Professional Surveyor V. L. BEZNER Certificate Number V. L. BEZNER R.P.S. #7920 JOB #124205 / 101 SW / E.U.O.
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**Chartreuse Spanker Fed Com 1H
Cottonwood Creek Field
Eddy County, New Mexico**

**KB: 3956'
GL: 3938'**

Surface Lateral Terminus
700' FSL 700' FSL
660' FEL 700' FWL
S-34
T17S, R23E

Existing Wellbore

API: 30-015-34834

**Spud: 03/27/07
Rig Rel: 05/01/07**

Bit Size: 12-1/4"

Red Beds

San Andres @ 235'

8-5/8" 32# J55 LTC @ 1323'
w/ 490 sx Light C (85:35:6) w/ 5 pps gilsonite (D24),
3% salt (D44) & 2% CaCl2 (S1) (12 4 / 2 06) and
200 sx C w/ 2% CaCl2 (14.8 / 1.34)
Circ 201 sx. AHS = 13.90", WO = 57%

Bit Size: 7-7/8"

136 jts 2-7/8" 6.5# J-55 EUE 8rd tbq
2.31" F Sliding Sleeve
1jt 2-7/8"
T2 On-Off tool w/ 2.31" F profile @ 4209'
Arrowset 1X packer @ 4216'
10' x 2-7/8" L-80 sub
2.31" F nipple @ 4227'
10' x 2-7/8" L-80 sub
2 25" R nipple w/ 2,197" no-go @ 4238'
2-7/8" W/L entry guide @ 4239'

Smith OH Whipstock @ 4255' - 4270'
Window: 4255' - 4263'

Wolfcamp @ 4590'

Landing pt @ 4632'

Glorietta @ 1550'

Blaine @ 2230'

Tubb @ 2900'

Abo Shale @ 3582'

Abo Carb @ 3784'

Wolfcamp Perfs:

**Group 1 7700' - 7706', 7760' - 7766', 7830' - 7836', 7918' - 7924', 8122' - 8128',
8108' - 8114' & 8342' - 8348' (63 JH's, 1 5 JSPF)**
**Group 2 7118' - 7126', 7176' - 7180', 7310' - 7316', 7370' - 7376' & 7442' - 7448'
(60 JH's; 2 JSPF)**
**Group 3 5926' - 5936', 5982' - 5990', 6074' - 6084', 6332' - 6344' & 6366' - 6372'
(69 JH's, 1 5 JSPF)**
**Group 4 5512' - 5520', 5560' - 5566', 5636' - 5642', 5684' - 5692', 5824' - 5834' &
5854' - 5860' (66 JH's, 1 5 JSPF)**

MD	Incl	DLS	MD	Incl	DLS	MD	Incl	DLS
4212	1.1	0.6	5622	90.9	0.3	7030	93.9	6.5
4244	0.6	1.9	5653	90.8	0.6	7062	94.7	4.2
4276	1.3	2.8	5684	90.8	0.6	7093	96.0	4.5
4307	5.6	18.2	5715	91.7	3.1	7124	96.7	2.8
4339	5.3	1.3	5746	92.0	1.7	7156	94.9	5.9
4371	9.3	13.0	5777	92.1	0.3	7187	93.0	6.9
4403	14.3	15.9	5808	92.7	2.4	7218	91.0	6.4
4433	19.4	17.1	5839	93.2	1.8	7249	90.8	1.1
4462	24.5	17.6	5870	91.7	5.5	7280	90.7	1.1
4493	29.4	15.6	5901	89.1	8.5	7312	90.9	4.9
4523	34.3	16.4	5931	88.6	2.0	7344	90.7	1.9
4553	39.7	18.2	5963	89.4	3.4	7373	88.8	7.0
4584	45.6	19.6	5994	90.5	4.8	7405	86.9	9.6
4615	51.7	20.4	6000	89.2	31.0	7435	86.9	1.5
4645	57.9	21.0	6032	92.5	11.3	7467	87.7	6.2
4676	64.2	20.7	6065	96.4	11.9	7498	89.6	6.2
4707	70.3	19.8	6096	97.3	4.6	7528	91.0	7.1
4738	76.7	21.0	6127	97.4	0.4	7559	92.4	4.3
4751	79.5	21.9	6158	97.0	1.3	7590	92.6	2.4
4767	82.6	19.5	6189	95.4	6.3	7621	92.7	0.6
4797	89.0	21.5	6220	95.3	1.0	7652	92.8	3.5
4826	92.1	10.6	6251	92.9	7.9	7684	92.9	1.5
4856	93.6	5.3	6281	94.3	4.8	7714	92.3	2.5
4887	94.3	2.3	6312	94.8	1.7	7745	91.4	3.3
4947	94.9	1.5	6343	95.3	2.1	7775	90.5	4.9
4978	91.8	10.4	6374	95.4	0.9	7806	90.7	0.6
5009	90.4	5.0	6405	95.4	0.3	7837	90.9	2.5
5039	89.6	3.3	6435	94.8	2.0	7868	90.8	0.3
5070	89.3	1.2	6466	94.5	1.2	7899	90.6	4.8
5100	90.3	3.2	6498	94.5	1.7	7930	90.8	2.3
5131	91.5	4.3	6529	93.8	3.5	7961	91.3	1.5
5161	92.2	2.2	6560	91.9	7.1	7992	91.6	5.0
5191	91.9	1.2	6591	91.8	1.2	8023	91.4	6.8
5222	90.5	5.4	6623	91.9	1.2	8054	91.4	5.9
5251	91.1	2.8	6654	93.0	6.9	8085	91.5	1.5
5282	91.6	1.7	6685	93.5	2.6	8117	91.5	1.6
5313	91.5	0.6	6717	93.6	1.8	8148	91.6	4.9
5344	91.7	0.6	6748	92.5	3.7	8179	91.5	4.5
5375	91.7	1.4	6780	91.5	4.0	8210	91.4	0.6
5405	91.5	1.1	6811	92.3	2.8	8241	91.4	2.0
5436	91.3	0.9	6843	92.6	2.9	8273	91.4	3.1
5467	91.4	0.9	6874	91.1	6.5	8304	91.7	4.2
5498	91.9	2.0	6905	92.0	2.7	8335	92.2	5.0
5529	91.6	1.4	6937	91.7	2.0	8343	92.2	0.4
5560	90.9	2.5	6968	92.2	1.9	8409	92.2	0.0
5591	90.9	0.9	6999	92.5	5.0			

**269.68° Azimuth
3910.4' VS Single Lateral**

EOC @ 4856'

Bit Size: 7-7/8"

EOL @ 8409'

5-1/2" 17# I80 LTC @ 8409'

w/ 620 sx 50.50.10 Poz:C Gel w/ 1/4# pps flocele (D29) (11 9/2.32) and
340 sx TXI Lightweight w/ 100% calcium carbonate (D151), 2%
FLA (D112), 2% expansion agent (D174), 0.2% antifoamer (D46),
0.2% dispersant (D65) & 0.1% extender (B159) (13.0 / 2.77)
Circ 115 sx (8.87" AHS)

Marker Jts: 4229' - 4251', 5489' - 5513' (Csg Tally)

**Vertical TD: 4710'
Lateral TD: 8409'**

MEE: 06/26/07

Current	
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WELL NAME:	Charreuse Spanker Fed Com #1H	FIELD:	Cottonwood Creek	LSE#:		PROPERTY #:	09870003
STATE:	NM	COUNTY:	Eddy	LOCATION:	700' FSL & 660' FEL of Sec 34-T17S-R23E	PREPARED BY:	Art Carrasco
API NO:	30-025-34834	SPUD DATE:	3/27/2007	RMATION:	Abso / Wolfcamp	DATE:	5/1/2007
TMD:	8409'	M PBTD:	'	ELEVATION:	3938'	KB:	3956'
						LAST UPDATE:	5/10/2007

PIPE DATA												PERFORMANCE			CEMENT & HOLE DATA			
CSG	OD	ID	Drift	GRADE	THD	WT/FT	TOP (TVD)	BTM (TVD)	TOP (TMD)	BTM (TMD)	# JTS	Collapse* (psi)	Burst* (psi)	Tensile* (lbs)	BIT SIZE	Lead (sacks)	Tail (sacks)	TOC
												* Safety Factor Not Included						
Surf Prod	8 625" 5 500"	7 921" 4 892"	7 796" 4 767"	J55 80	ST&C LTC	32 00# 17 00#	0' 0'	1,323 2,125	0' 0'	1312' 2125'	31 48	2,530 6,280	3,930 7,740	417,000 348,000	12 250' 7 875'	490' 620	200 340	Surface Surface
Tbg	2 875"	2 441"	2 347"	N80	8RD	6 500#	0'	0	0'	0'		11,160	10,570	144,960				

Remarks: Well drilled to 8409' TMD Window at 4255' to 4263' End of Curve: 4856' TMD Short Joints 4229'-4251' & 5489'- 5513'	2 875	Tubing	5 500	Casing	01320	65 71	06340	63920	1 56430
	TUBULAR CAPACITY			(bbl/ft)	(ft/bbl)	(cf/ft)	(gal/ft)	(ft/gal)	
	2 875	Tubing		00578	172 76	03250	24310	4 11340	
	5 500	Casing		02320	43 01	13050	97640	1 02420	
	PERFORATION RECORD (Measured Depth)								

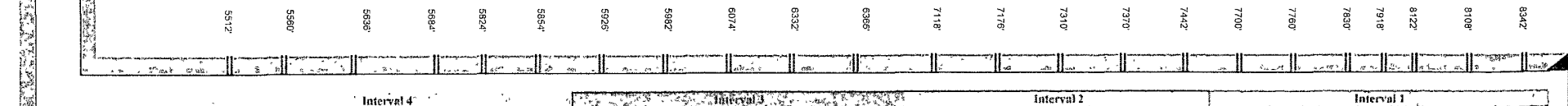
					ANNULAR VOLUME BETWEEN					(bbl/ft)	(ft/bbl)	(cf/ft)	(gal/ft)	(ft/gal)
2 875	Tubing	5 500	Casing		01520	65 71	08540	63920	1 56450					

	Well drilled to 8409' TMD	
	Window at 4255' to 4263'	
	End of Curve: 4856' TMD	

TUBULAR CAPACITY		(bbl/ft)	(R/bbl)	(c/f/ft)	(gal/ft)	(ft/gal)
2 875	Tubing	00578	172 76	03250	24310	4 11340
5 500	Casing	02320	43 01	13050	97640	1 02420

		PERFORATION RECORD (Measured Depth)							
DATE	TOP	BTM	ZONE	INTERVAL	SPF	SIZE	HOLES	STATUS	
5/10/2007	8342'	8348'	Abo/WC	1	1.5	0.42	9	Stage 1	
5/10/2007	8108'	8114'	Abo/WC	2	1.5	0.42	9	Stage 1	
5/10/2007	8122'	8128'	Abo/WC	3	1.5	0.42	9	Stage 1	
5/10/2007	7918'	7924'	Abo/WC	4	1.5	0.42	9	Stage 1	
5/10/2007	7830'	7836'	Abo/WC	5	1.5	0.42	9	Stage 1	
5/10/2007	7760'	7766'	Abo/WC	6	1.5	0.42	9	Stage 1	
5/10/2007	7700'	7706'	Abo/WC	7	1.5	0.42	9	Stage 1	
5/10/2007	7442'	7448'	Abo/WC	8	2	0.42	12	Stage 2	
5/10/2007	7370'	7376'	Abo/WC	9	2	0.42	12	Stage 2	
5/10/2007	7310'	7316'	Abo/WC	10	2	0.42	12	Stage 2	
5/10/2007	7176'	7180'	Abo/WC	11	2	0.42	8	Stage 2	
5/10/2007	7118'	7126'	Abo/WC	12	2	0.42	16	Stage 2	
5/10/2007	6366'	6372'	Abo/WC	13	1.5	0.42	9	Stage 3	
5/10/2007	6332'	6344'	Abo/WC	14	1.5	0.42	18	Stage 3	
5/10/2007	6074'	6084'	Abo/WC	15	1.5	0.42	15	Stage 3	
5/10/2007	5982'	5990'	Abo/WC	16	1.5	0.42	12	Stage 3	
5/10/2007	5926'	5936'	Abo/WC	17	1.5	0.42	15	Stage 3	
5/10/2007	5854'	5860'	Abo/WC	18	1.5	0.42	9	Stage 4	
5/10/2007	5824'	5834'	Abo/WC	19	1.5	0.42	15	Stage 4	
5/10/2007	5684'	5692'	Abo/WC	20	1.5	0.42	12	Stage 4	
5/10/2007	5636'	5642'	Abo/WC	21	1.5	0.42	9	Stage 4	
5/10/2007	5560'	5566'	Abo/WC	22	1.5	0.42	9	Stage 4	
5/10/2007	5512'	5520'	Abo/WC	23	1.5	0.42	12	Stage 4	

GEOLOGIST:	Bill Baker / Jim Wood	258	
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DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 • Artesia, NM 88211-0160 • Office (505) 748-8704 • Fax (505) 748-8719

April 16, 2007

David H. Arrington Oil & Gas, Inc.
214 West Texas Ave., Suite 400
Midland, Texas 79701

Re: Chartreuse Spanker #1H
Sec.34, T-17-S, R-23-E
Eddy County, New Mexico

Attn: Mark Ellerbe

The following is a Deviation Survey on the referenced well in Eddy County, New Mexico:

158' - .25 °	2613' - .44 °	3544' - .88 °	4476' - 1.50 °
383' - .75 °	2707' - .53 °	3635' - .70 °	4570' - 1.32 °
582' - .75 °	2801' - .53 °	3728' - .70 °	4656' - 1.32 °
890' - 1.00 °	2894' - .53 °	3824' - .88 °	
1109' - .75 °	2987' - .53 °	3915' - 1.23 °	
1280' - 1.00 °	3081' - .44 °	4039' - .97 °	
1740' - 1.00 °	3174' - .62 °	4161' - .97 °	
2256' - 1.06 °	3267' - .53 °	4321' - 1.30 °	
2331' - 1.23 °	3359' - .35 °	4352' - 1.30 °	
2425' - .53 °	3451' - .62 °	4414' - 1.41 °	

Sincerely,

Gary W. Chappell
Contracts Manager

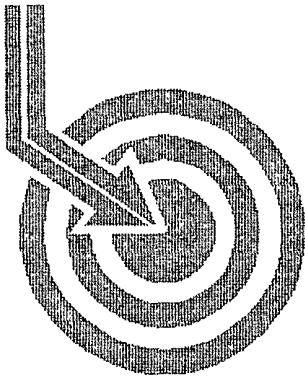
STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 16th day of April, 2007 by Gary W. Chappell.

MY COMMISSION EXPIRES

2/25/08

NOTARY PUBLIC



Scientific Drilling

DAVID H. ARRINGTON OIL & GAS

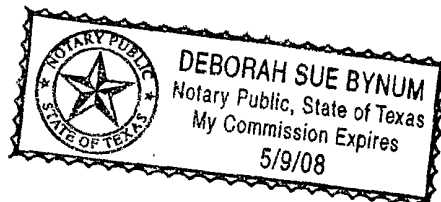
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com #1H
Wellpath: VH - Job #32K0307268
Survey: 03/31/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

Shane.....Company Representative

Notorized this date 16th of April, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: DAVID H. ARRINGTON OIL & GAS
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com
Wellpath: VH - Job #32K0307268

Date: 04/15/2007 Time: 20:52:31 Page: 1
Co-ordinate(NE) Reference: Site. Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,269.68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/31/07
KSRG 0'-2227'

Start Date: 03/31/2007

Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Gonzales w/P&M
Tied-to: From Surface

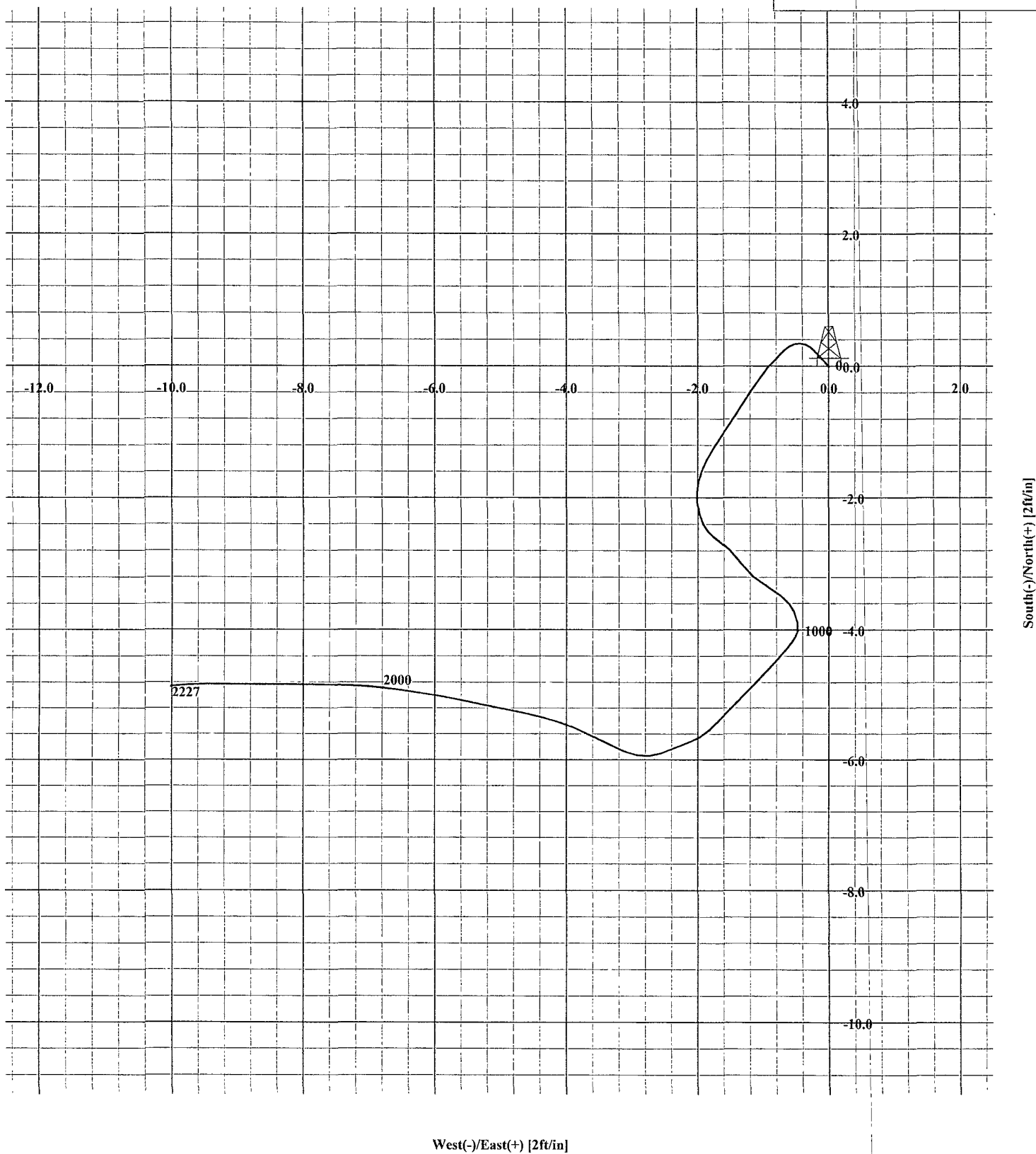
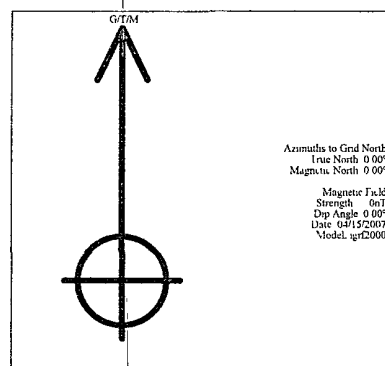
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.36	316.63	100.00	0.21	0.23	-0.22	0.36	0.31	316.63
200.00	0.39	228.62	200.00	0.69	0.23	-0.69	0.52	0.72	288.65
300.00	0.52	212.59	299.99	1.19	-0.38	-1.19	0.18	1.24	252.44
400.00	0.64	213.73	399.99	1.75	-1.22	-1.74	0.12	2.13	234.93
500.00	0.45	173.30	499.99	2.02	-2.08	-2.01	0.42	2.89	224.00
600.00	0.31	123.02	599.98	1.75	-2.61	-1.73	0.35	3.14	213.54
700.00	0.31	144.48	699.98	1.37	-2.98	-1.35	0.12	3.27	204.34
800.00	0.38	119.52	799.98	0.92	-3.37	-0.90	0.16	3.48	195.02
900.00	0.24	157.68	899.98	0.56	-3.72	-0.53	0.24	3.76	188.18
1000.00	0.11	191.42	999.98	0.50	-4.01	-0.47	0.16	4.04	186.75
1100.00	0.29	219.93	1099.98	0.68	-4.30	-0.66	0.20	4.35	188.68
1200.00	0.49	224.08	1199.98	1.14	-4.80	-1.12	0.20	4.93	193.09
1300.00	0.41	222.35	1299.97	1.68	-5.37	-1.65	0.08	5.62	197.12
1400.00	0.26	248.51	1399.97	2.14	-5.72	-2.11	0.21	6.09	200.22
1500.00	0.31	248.53	1499.97	2.60	-5.90	-2.57	0.05	6.44	203.53
1600.00	0.40	293.69	1599.97	3.17	-5.86	-3.14	0.29	6.65	208.19
1700.00	0.37	297.51	1699.97	3.78	-5.57	-3.75	0.04	6.71	213.92
1800.00	0.72	283.27	1799.96	4.67	-5.28	-4.64	0.37	7.03	221.35
1900.00	0.67	280.12	1899.95	5.86	-5.03	-5.83	0.06	7.70	229.22
2000.00	0.44	276.51	1999.95	6.82	-4.88	-6.79	0.23	8.36	234.27
2100.00	0.75	270.52	2099.94	7.85	-4.83	-7.82	0.32	9.20	238.29
2200.00	1.16	269.96	2199.93	9.52	-4.83	-9.49	0.41	10.65	243.03
2227.00	1.04	262.32	2226.92	10.03	-4.86	-10.01	0.70	11.13	244.09



Scientific
Drilling

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com #1H
Wellpath: VH - Job #32K0307268
Survey: 03/31/07





May 3, 2007

DAVID ARRINGTON OIL & GAS INC.
214 West Texas Avenue
Suite 400
Midland, TX 79701

RE: DAVID ARRINGTON OIL & GAS INC.
CHARTREUSE SPANKER FED COM #1
EDDY COUNTY, NM
RIG: J W #3
PES FILE NO.: 101006302-WT-WT

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,

A handwritten signature in black ink, appearing to read "Francisco Sinisterra".

Francisco Sinisterra
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh

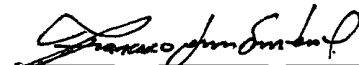


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) GERARDO DAVILA
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 04/6/07 TO 4/19/07
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DAVID ARRINGTON OIL & GAS INC.
CHARTREUSE SPANKER FED COM #1
EDDY COUNTY, NM
RIG: J W #3
9. SURVEY CERTIFIED FROM: 4,212 TO 6,995 FEET MEASURED DEPTH.

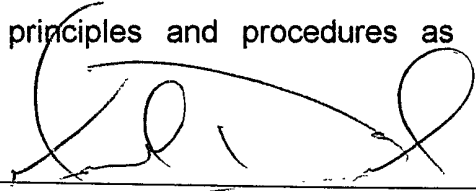
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 2568.35 FEET ON A BEARING OF 269.98 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 7,061 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Francisco Sinisterra
M/LWD SERVICE COORDINATOR

STATE OF TEXAS
COUNTY OF MIDLAND

I, Gerardo Davila certify that; I am employed by PATHFINDER ENERGY SERVICES; that I did on the day(s) of **4/6/07** through **4/19/07** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **4,212 feet** to a depth of **6,995 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by PATHFINDER ENERGY SERVICES; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DAVID ARRINGTON OIL & GAS INC.** for the **Chartreuse Spanker Fed Com #1** Well API No. **30-015-34834** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PATHFINDER ENERGY SERVICES.


Gerardo Davila
Field Engineer

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 04/06/2007
Date Completed: 04/19/2007

DAVID ARRINGTON OIL GAS INC.
CHARTREUSE SPANKER ST1
EDDY County, NM
Rig:
PathFinder Office Supervisor:
PathFinder Field Engineers:G DAVILA
C DAVILA

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.47.10.3128 N LON:104.40.22.0980 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 395673.1336 Y: 649897.1706
North Aligned To:GRID NORTH
Total Magnetic Correction: 8.80° EAST TO GRID
Vertical Section Plane: 269.68
Survey Vert. Reference: 15.00' Rotary Table To Ground
Altitude:3938.00' Ground To MSL

Measured Depth	7061.00	(feet)
Inclination	91.28	(deg)
Azimuth	267.46	(deg)
True Vertical Depth	4583.72	(feet)
Vertical Section	2568.32	(feet)
Survey X cord	393104.65	(feet)
Survey Y cord	649895.91	(feet)
Survey Lat	32.78617162 N	(deg)
Survey Lon	104.68116252 W	(deg)
Rectangular Corr. N/S	1.09 S	(feet)
Rectangular Corr. E/W	2568.35 W	(feet)
Closure Distance	2568.35	(feet)
Direction of Closure	269.98	(deg)
Dogleg Severity	0.01	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DAVID ARRINGTON OIL GAS INC.

CHARTREUSE SPANKER ST1

EDDY County, NM

Rig:

PathFinder Office Supervisor:

PathFinder Field Engineers: G DAVILA

C DAVILA

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.47.10.3128 N LON: 104.40.22.0980 W

Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 395673.1336 Y: 649897.1706

North Aligned To: GRID NORTH

Total Magnetic Correction: 8.80° EAST TO GRID

Vertical Section Plane: 269.68°

Survey Vert. Reference: 15.00' Rotary Table To Ground

Altitude: 3938.00' Ground To MSL

Survey Calculations by RX5 V5.10 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE IN TO PREVIOUS PATHFINDER MWD SURVEY @ 4164'MD.										
4164.00	0.97	81.22	4163.76	0.00	14.31	7.37 N	14.35 W	16.13@	297.18	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
4212.00	1.14	70.15	4211.75	48.00	13.46	7.59 N	13.50 W	15.49@	299.36	0.56
4244.00	0.62	50.99	4243.75	32.00	13.02	7.81 N	13.06 W	15.22@	300.88	1.87
4276.00	1.32	14.95	4275.74	32.00	12.79	8.28 N	12.84 W	15.27@	302.81	2.80
4307.00	5.63	291.54	4306.69	31.00	14.11	9.18 N	14.16 W	16.87@	302.96	18.16
4339.00	5.28	293.92	4338.55	32.00	16.90	10.35 N	16.96 W	19.87@	301.39	1.30
4371.00	9.32	285.92	4370.28	32.00	20.74	11.66 N	20.80 W	23.85@	299.27	13.00
4403.00	14.33	281.17	4401.59	32.00	27.11	13.14 N	27.18 W	30.19@	295.80	15.94
4433.00	19.43	279.59	4430.29	30.00	35.67	14.69 N	35.75 W	38.65@	292.34	17.07
4462.00	24.53	279.24	4457.17	29.00	46.37	16.46 N	46.46 W	49.29@	289.51	17.59
4493.00	29.37	279.50	4484.80	31.00	60.21	18.75 N	60.32 W	63.17@	287.27	15.61
4523.00	34.29	279.42	4510.28	30.00	75.80	21.35 N	75.92 W	78.87@	285.71	16.42
4553.00	39.66	277.74	4534.24	30.00	93.62	24.03 N	93.76 W	96.79@	284.37	18.19
4584.00	45.55	275.55	4557.04	31.00	114.44	26.43 N	114.59 W	117.60@	282.99	19.60
4615.00	51.70	273.61	4577.52	31.00	137.61	28.27 N	137.77 W	140.64@	281.60	20.40
4645.00	57.86	272.03	4594.82	30.00	162.07	29.46 N	162.24 W	164.89@	280.29	20.96
4676.00	64.19	270.89	4609.83	31.00	189.16	30.15 N	189.33 W	191.72@	279.05	20.68
4707.00	70.26	269.84	4621.82	31.00	217.73	30.32 N	217.90 W	220.00@	277.92	19.82
4738.00	76.68	268.69	4630.64	31.00	247.43	29.93 N	247.60 W	249.40@	276.89	21.01
4751.00	79.49	268.25	4633.32	13.00	260.15	29.59 N	260.32 W	261.99@	276.49	21.90
4767.00	82.57	267.73	4635.82	16.00	275.94	29.04 N	276.11 W	277.63@	276.00	19.51
4797.00	88.99	267.02	4638.02	30.00	305.82	27.67 N	305.98 W	307.23@	275.17	21.52

PathFinder Energy Services, Inc.

Survey Report

DAVID ARRINGTON OIL GAS INC.
CHARTREUSE SPANKER ST1
EDDY County, NM
RIG:

Page 02/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4826.00	92.07	267.11	4637.76	29.00	334.79	26.19 N	334.94 W	335.96@	274.47	10.62
4856.00	93.56	267.64	4636.28	30.00	364.72	24.81 N	364.87 W	365.71@	273.89	5.28
4887.00	94.26	267.81	4634.17	31.00	395.63	23.59 N	395.77 W	396.47@	273.41	2.34
4917.00	95.58	267.90	4631.59	30.00	425.51	22.47 N	425.64 W	426.23@	273.02	4.41
4947.00	94.88	268.43	4628.86	30.00	455.37	21.51 N	455.50 W	456.01@	272.70	2.93
4978.00	91.80	269.40	4627.05	31.00	486.31	20.93 N	486.44 W	486.89@	272.46	10.40
5009.00	90.40	270.01	4626.46	31.00	517.31	20.77 N	517.43 W	517.85@	272.30	4.95
5039.00	89.60	270.63	4626.46	30.00	547.30	20.93 N	547.43 W	547.83@	272.19	3.34
5070.00	89.34	270.36	4626.74	31.00	578.30	21.20 N	578.43 W	578.81@	272.10	1.20
5100.00	90.31	270.28	4626.83	30.00	608.30	21.37 N	608.43 W	608.80@	272.01	3.24
5131.00	91.54	270.80	4626.33	31.00	639.29	21.66 N	639.42 W	639.79@	271.94	4.32
5161.00	92.15	270.54	4625.37	30.00	669.27	22.01 N	669.40 W	669.76@	271.88	2.23
5191.00	91.89	270.28	4624.31	30.00	699.25	22.22 N	699.38 W	699.74@	271.82	1.24
5222.00	90.48	269.40	4623.67	31.00	730.24	22.13 N	730.37 W	730.71@	271.74	5.35
5251.00	91.10	269.92	4623.27	29.00	759.24	21.96 N	759.37 W	759.69@	271.66	2.79
5282.00	91.63	269.92	4622.53	31.00	790.23	21.92 N	790.36 W	790.67@	271.59	1.70
5313.00	91.54	270.10	4621.67	31.00	821.21	21.92 N	821.35 W	821.64@	271.53	0.63
5344.00	91.71	270.19	4620.79	31.00	852.20	22.00 N	852.34 W	852.62@	271.48	0.63
5375.00	91.71	269.75	4619.86	31.00	883.19	21.98 N	883.32 W	883.60@	271.43	1.42
5405.00	91.54	269.48	4619.01	30.00	913.17	21.78 N	913.31 W	913.57@	271.37	1.05
5436.00	91.28	269.57	4618.25	31.00	944.17	21.53 N	944.30 W	944.55@	271.31	0.90
5467.00	91.36	269.84	4617.54	31.00	975.16	21.37 N	975.29 W	975.53@	271.25	0.90
5498.00	91.89	269.48	4616.66	31.00	1006.14	21.18 N	1006.28 W	1006.50@	271.21	2.04
5529.00	91.63	269.13	4615.71	31.00	1037.13	20.81 N	1037.26 W	1037.47@	271.15	1.42
5560.00	90.92	268.78	4615.02	31.00	1068.12	20.24 N	1068.25 W	1068.44@	271.09	2.54
5591.00	90.92	268.52	4614.52	31.00	1099.11	19.51 N	1099.24 W	1099.41@	271.02	0.85
5622.00	90.92	268.61	4614.02	31.00	1130.10	18.73 N	1130.22 W	1130.38@	270.95	0.28

PathFinder Energy Services, Inc.

Survey Report

DAVID ARRINGTON OIL GAS INC.
CHARTREUSE SPANKER ST1
EDDY County, NM
RIG:

Page 03/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5653.00	90.84	268.78	4613.54	31.00	1161.09	18.03 N	1161.21 W	1161.35@	270.89	0.63
5684.00	90.75	268.61	4613.11	31.00	1192.08	17.32 N	1192.20 W	1192.32@	270.83	0.63
5715.00	91.71	268.69	4612.45	31.00	1223.07	16.59 N	1223.18 W	1223.30@	270.78	3.13
5746.00	91.98	268.25	4611.45	31.00	1254.05	15.76 N	1254.16 W	1254.25@	270.72	1.65
5777.00	92.07	268.25	4610.36	31.00	1285.02	14.82 N	1285.12 W	1285.21@	270.66	0.28
5808.00	92.68	268.69	4609.07	31.00	1315.99	13.99 N	1316.08 W	1316.16@	270.61	2.44
5839.00	93.21	268.87	4607.48	31.00	1346.94	13.33 N	1347.04 W	1347.10@	270.57	1.79
5870.00	91.71	268.08	4606.15	31.00	1377.90	12.51 N	1378.00 W	1378.05@	270.52	5.45
5901.00	89.08	267.90	4605.93	31.00	1408.89	11.42 N	1408.97 W	1409.02@	270.46	8.53
5931.00	88.55	268.17	4606.55	30.00	1438.87	10.39 N	1438.95 W	1438.99@	270.41	1.96
5963.00	89.43	268.78	4607.12	32.00	1470.86	9.54 N	1470.93 W	1470.96@	270.37	3.35
5994.00	90.48	269.83	4607.14	31.00	1501.85	9.16 N	1501.93 W	1501.96@	270.35	4.80
6025.00	90.75	269.57	4606.81	31.00	1532.85	9.00 N	1532.93 W	1532.95@	270.34	1.19
6057.00	91.10	269.84	4606.29	32.00	1564.85	8.83 N	1564.92 W	1564.95@	270.32	1.37
6088.00	91.36	269.66	4605.63	31.00	1595.84	8.70 N	1595.91 W	1595.94@	270.31	1.02
6119.00	91.28	269.13	4604.91	31.00	1626.83	8.37 N	1626.90 W	1626.93@	270.29	1.72
6151.00	91.19	268.96	4604.23	32.00	1658.82	7.84 N	1658.89 W	1658.91@	270.27	0.61
6182.00	91.36	269.13	4603.54	31.00	1689.81	7.32 N	1689.88 W	1689.90@	270.25	0.80
6214.00	91.54	269.04	4602.73	32.00	1721.80	6.81 N	1721.87 W	1721.88@	270.23	0.61
6245.00	90.92	268.61	4602.06	31.00	1752.79	6.17 N	1752.85 W	1752.86@	270.20	2.44
6277.00	90.22	269.13	4601.74	32.00	1784.79	5.54 N	1784.84 W	1784.85@	270.18	2.75
6308.00	90.31	269.31	4601.60	31.00	1815.78	5.12 N	1815.84 W	1815.85@	270.16	0.63
6339.00	90.57	269.13	4601.36	31.00	1846.78	4.70 N	1846.84 W	1846.84@	270.15	1.02
6371.00	90.92	269.04	4600.94	32.00	1878.78	4.19 N	1878.83 W	1878.83@	270.13	1.13
6402.00	91.10	268.96	4600.40	31.00	1909.77	3.65 N	1909.82 W	1909.82@	270.11	0.63
6433.00	90.84	268.52	4599.87	31.00	1940.76	2.97 N	1940.81 W	1940.81@	270.09	1.65
6465.00	90.57	268.52	4599.48	32.00	1972.75	2.14 N	1972.80 W	1972.80@	270.06	0.82

PathFinder Energy Services, Inc.

Survey Report

DAVID ARRINGTON OIL GAS INC.
CHARTREUSE SPANKER ST1
EDDY County, NM
RIG:

Page 04/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
6495.00	89.96	268.87	4599.34	30.00	2002.75	1.45 N	2002.79 W	2002.79@	270.04	2.36
6526.00	90.04	269.31	4599.34	31.00	2033.75	0.96 N	2033.78 W	2033.78@	270.03	1.45
6558.00	90.04	269.75	4599.32	32.00	2065.75	0.70 N	2065.78 W	2065.78@	270.02	1.37
6589.00	91.80	270.63	4598.82	31.00	2096.74	0.80 N	2096.78 W	2096.78@	270.02	6.34
6620.00	93.12	271.24	4597.49	31.00	2127.70	1.30 N	2127.74 W	2127.74@	270.04	4.69
6652.00	91.80	270.54	4596.11	32.00	2159.66	1.80 N	2159.71 W	2159.71@	270.05	4.67
6683.00	91.36	271.24	4595.25	31.00	2190.65	2.28 N	2190.69 W	2190.69@	270.06	2.67
6714.00	92.51	271.77	4594.21	31.00	2221.61	3.09 N	2221.66 W	2221.67@	270.08	4.06
6745.00	92.51	271.68	4592.85	31.00	2252.56	4.02 N	2252.62 W	2252.62@	270.10	0.28
6777.00	92.68	271.15	4591.40	32.00	2284.51	4.81 N	2284.58 W	2284.58@	270.12	1.73
6807.00	92.15	270.45	4590.14	30.00	2314.48	5.23 N	2314.55 W	2314.55@	270.13	2.93
6838.00	91.71	269.83	4589.09	31.00	2345.46	5.31 N	2345.53 W	2345.54@	270.13	2.45
6869.00	91.36	269.04	4588.26	31.00	2376.45	5.01 N	2376.52 W	2376.52@	270.12	2.78
6901.00	91.36	268.96	4587.50	32.00	2408.44	4.45 N	2408.50 W	2408.51@	270.11	0.27
6932.00	91.10	268.69	4586.83	31.00	2439.43	3.81 N	2439.49 W	2439.49@	270.09	1.20
6963.00	91.80	268.34	4586.05	31.00	2470.41	3.01 N	2470.47 W	2470.47@	270.07	2.54
6995.00	91.28	267.46	4585.19	32.00	2502.39	1.84 N	2502.43 W	2502.43@	270.04	3.20
STRAIGHT LINE PROJECTION TO BIT @ 7061'MD.										
7061.00	91.28	267.46	4583.72	66.00	2568.32	1.09 S	2568.35 W	2568.35@	269.98	0.01

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DAVID ARRINGTON OIL GAS
CHARTREUSE SPANKER
EDDY Co., NM

Tue Mar 27 09:29:17 2007

Coordinates

Latitude: 32.786198 N (32 deg. 47 min. 10.3111 sec.)
Longitude: 104.672805 W (-104 deg. 40 min. 22.0996 sec.)
Elevation: 3938.00 feet.
Calculation Date: Mar/27/2007

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6197 degrees
Total Magnetic Field: 0.49264 gauss
Magnetic Declination: 8.617238 degrees
Horizontal Intensity: 0.241691 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.617238 Degr.

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 395673.0000 feet
Y: 649897.0000 feet
True to Grid: (convergence) 0.183828 degrees
Magnetic to Grid: 8.801065 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.801065 Degr.



TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DAVID ARRINGTON OIL & GAS INC.		
LEASE / WELL No.:	CHARTREUSE SPANKER	FED COM #1	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY COUNTY	NM	USA
RIG:	JW #3		
API WELL No:	30-015-34834		
JOB No:	101006302		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.8	LWD Calculated:	8.8
		Agreed Upon:	8.8
X =	395673.000000	Feet	Y = 649897.000000
			Feet
SITE LATITUDE:	32.786198 N	SITE LONGITUDE:	104.672805 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	
PROPOSED DRIFT DIRECTION:	269.68		
KELLY BUSHING ELEVATION:	15		
ALTITUDE:	3938	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	2227
DRIFT ANGLE:	0
DRIFT DIRECTION:	262.32
TRUE VERTICAL DEPTH:	2226.92
VERTICAL SECTION:	10.04
RECTANGULAR COORDINATE (N / S) :	-4.86
RECTANGULAR COORDINATE (E / W) :	-10.01
CLOSURE DISTANCE / DIRECTION:	
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO

WELL PLAN

KICKOFF DEPTH:	2227	TOTAL DEPTH:
KICKOFF ANGLE:	1.04	MAX ANGLE:

PES Engineers:

**Signature of both field engineers required if applicable

Directional Driller:

DATE: 4-31-07

PATHFINDER ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DAVID ARRINGTON OIL & GAS INC.		
LEASE / WELL No.:	CHARTREUSE SPANKER	FED COM #1	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY COUNTY	NM	USA
RIG:	JW #3		
API WELL No:	30-015-34834		
JOB No:	101006302		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.8	LWD Calculated:	8.8
		Agreed Upon:	8.8
X =	395673.000000	Feet	Y = 649897.000000
			Feet
SITE LATITUDE:	32.786198 N	SITE LONGITUDE:	104.672805 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	
PROPOSED DRIFT DIRECTION:	269.68		
KELLY BUSHING ELEVATION:	15		
ALTITUDE:	3938	Feet	WATER DEPTH:
			Feet

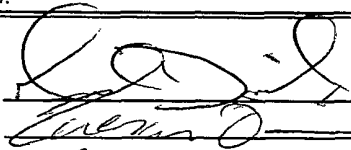
TIE-IN SURVEY

MEASURED DEPTH:	4164
DRIFT ANGLE:	0.97
DRIFT DIRECTION:	81.22
TRUE VERTICAL DEPTH:	4163.76
VERTICAL SECTION:	14.31
RECTANGULAR COORDINATE (N / S) :	7.37
RECTANGULAR COORDINATE (E / W) :	-14.35
CLOSURE DISTANCE / DIRECTION:	
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO

WELL PLAN

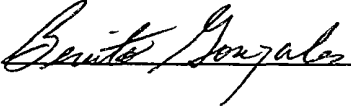
KICKOFF DEPTH:	4164	TOTAL DEPTH:
KICKOFF ANGLE:	0.97	MAX ANGLE:

PES Engineers:

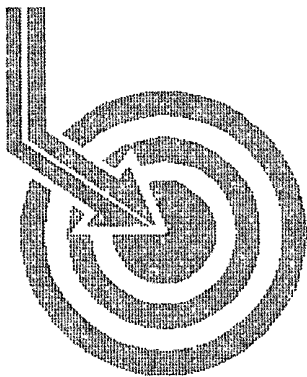


**Signature of both field engineers required if applicable

Directional Driller:



DATE: 05 APR 07



Scientific Drilling

DAVID H. ARRINGTON OIL & GAS

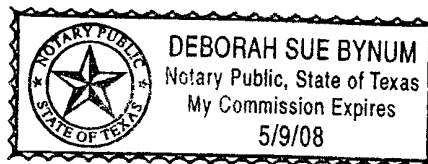
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com #1H
Wellpath: DH - Job #32D0407318
Survey: 04/19/07-04/30/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

David H. Arrington.....Company Representative

Notorized this date 11th of July, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: DAVID H. ARRINGTON OIL & GAS	Date: 06/26/2007	Time: 21:30:38	Page: 1
Field: Cottonwood Creek	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Chartreuse Spanker Federal Com	Section (VS) Reference:	Well (0.00N,0.00E,269.68Azi)	
Wellpath: DH - Job #32D0407318	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/19/07-04/30/07 MWD 5994'-8343' w/projection @ 8409' - Tie-In	Start Date: 04/19/2007
Company: Scientific Drilling Internatio	Engineer: Calvert/McCormick/Boyd/Smith
Tool: MWD;MWD	Tied-to: User Defined

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5994.00	90.48	269.83	4607.69	1501.89	9.28	-1501.97	0.00	1502.00	270.35
6000.00	89.16	271.14	4607.71	1507.89	9.33	-1507.97	30.99	1508.00	270.35
6032.00	92.53	272.41	4607.24	1539.86	10.32	-1539.95	11.25	1539.98	270.38
6065.00	96.41	272.98	4604.67	1572.71	11.87	-1572.80	11.88	1572.85	270.43
6096.00	97.29	274.10	4600.97	1603.42	13.77	-1603.52	4.57	1603.58	270.49
6127.00	97.40	274.12	4597.00	1634.07	15.97	-1634.19	0.36	1634.27	270.56
6158.00	97.02	273.97	4593.11	1664.74	18.14	-1664.87	1.32	1664.97	270.62
6189.00	95.40	272.88	4589.76	1695.49	19.98	-1695.63	6.29	1695.75	270.68
6220.00	95.27	273.17	4586.88	1726.30	21.61	-1726.45	1.02	1726.59	270.72
6251.00	92.90	272.58	4584.67	1757.17	23.16	-1757.33	7.88	1757.48	270.76
6281.00	94.29	272.91	4582.79	1787.07	24.59	-1787.24	4.76	1787.41	270.79
6312.00	94.79	272.76	4580.34	1817.93	26.12	-1818.10	1.68	1818.29	270.82
6343.00	95.30	272.37	4577.61	1848.77	27.51	-1848.95	2.07	1849.15	270.85
6374.00	95.40	272.63	4574.72	1879.59	28.85	-1879.79	0.90	1880.01	270.88
6405.00	95.36	272.72	4571.81	1910.42	30.29	-1910.62	0.32	1910.86	270.91
6435.00	94.82	272.46	4569.15	1940.26	31.64	-1940.47	2.00	1940.72	270.93
6466.00	94.52	272.26	4566.63	1971.12	32.91	-1971.34	1.16	1971.61	270.96
6498.00	94.52	272.82	4564.11	2002.98	34.33	-2003.21	1.74	2003.50	270.98
6529.00	93.75	272.05	4561.87	2033.87	35.64	-2034.10	3.51	2034.41	271.00
6560.00	91.85	270.97	4560.36	2064.81	36.46	-2065.05	7.05	2065.37	271.01
6591.00	91.82	270.61	4559.36	2095.79	36.88	-2096.03	1.16	2096.35	271.01
6623.00	91.92	270.97	4558.32	2127.77	37.33	-2128.01	1.17	2128.34	271.00
6654.00	93.03	269.14	4556.98	2158.74	37.36	-2158.98	6.90	2159.30	270.99
6685.00	93.47	269.80	4555.22	2189.68	37.07	-2189.93	2.56	2190.24	270.97
6717.00	93.57	270.37	4553.26	2221.62	37.12	-2221.87	1.81	2222.18	270.96
6748.00	92.53	270.86	4551.61	2252.58	37.45	-2252.82	3.71	2253.13	270.95
6780.00	91.45	270.17	4550.50	2284.55	37.74	-2284.80	4.00	2285.11	270.95
6811.00	92.32	270.03	4549.48	2315.53	37.79	-2315.78	2.84	2316.09	270.93
6843.00	92.56	270.91	4548.11	2347.50	38.05	-2347.75	2.85	2348.06	270.93
6874.00	91.14	269.49	4547.11	2378.48	38.16	-2378.73	6.48	2379.04	270.92
6905.00	91.96	269.29	4546.28	2409.47	37.83	-2409.72	2.72	2410.02	270.90
6937.00	91.72	269.88	4545.25	2441.45	37.60	-2441.70	1.99	2441.99	270.88
6968.00	92.19	269.53	4544.19	2472.44	37.44	-2472.68	1.89	2472.97	270.87
6999.00	92.46	268.01	4542.93	2503.41	36.77	-2503.65	4.98	2503.92	270.84
7030.00	93.91	269.40	4541.21	2534.35	36.07	-2534.59	6.47	2534.85	270.82
7062.00	94.65	268.28	4538.82	2566.26	35.43	-2566.50	4.19	2566.74	270.79
7093.00	96.04	268.21	4535.93	2597.11	34.48	-2597.35	4.49	2597.57	270.76
7124.00	96.72	268.76	4532.49	2627.91	33.67	-2628.14	2.81	2628.36	270.73
7156.00	94.89	268.24	4529.25	2659.74	32.84	-2659.97	5.94	2660.17	270.71
7187.00	92.96	269.14	4527.13	2690.66	32.13	-2690.88	6.87	2691.08	270.68
7218.00	91.04	268.66	4526.05	2721.64	31.53	-2721.86	6.38	2722.04	270.66
7249.00	90.81	268.89	4525.55	2752.63	30.87	-2752.85	1.05	2753.02	270.64
7280.00	90.74	268.56	4525.13	2783.62	30.18	-2783.84	1.09	2784.00	270.62
7312.00	90.88	266.99	4524.68	2815.60	28.94	-2815.81	4.93	2815.96	270.59
7344.00	90.71	267.57	4524.23	2847.57	27.42	-2847.77	1.89	2847.90	270.55
7373.00	88.75	268.12	4524.37	2876.55	26.33	-2876.75	7.02	2876.87	270.52
7405.00	86.87	265.69	4525.59	2908.49	24.60	-2908.67	9.60	2908.78	270.48
7435.00	86.93	266.14	4527.22	2938.38	22.47	-2938.55	1.51	2938.64	270.44
7467.00	87.68	267.99	4528.72	2970.31	20.83	-2970.47	6.23	2970.55	270.40



Scientific Drilling International

Survey Report

Company: DAVID H. ARRINGTON OIL & GAS
 Field: Cottonwood Creek
 Site: Eddy County, NM
 Well: Chartreuse Spanker Federal Com
 Wellpath: DH - Job #32D0407318

Date: 06/26/2007 Time: 21:30:38 Page: 2
 Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,269.68Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7498.00	89.60	268.08	4529.46	3001.29	19.77	-3001.44	6.20	3001.51	270.38
7528.00	91.04	266.51	4529.29	3031.26	18.36	-3031.41	7.10	3031.46	270.35
7559.00	92.36	266.61	4528.37	3062.20	16.50	-3062.34	4.27	3062.38	270.31
7590.00	92.56	267.32	4527.04	3093.14	14.86	-3093.27	2.38	3093.30	270.28
7621.00	92.73	267.31	4525.61	3124.08	13.41	-3124.20	0.55	3124.23	270.25
7652.00	92.76	266.24	4524.12	3155.00	11.66	-3155.11	3.45	3155.14	270.21
7684.00	92.90	266.69	4522.54	3186.91	9.69	-3187.01	1.47	3187.03	270.17
7714.00	92.29	266.24	4521.18	3216.83	7.85	-3216.93	2.53	3216.94	270.14
7745.00	91.42	265.69	4520.18	3247.75	5.67	-3247.83	3.32	3247.84	270.10
7775.00	90.54	264.50	4519.67	3277.65	3.10	-3277.72	4.93	3277.72	270.05
7806.00	90.67	264.38	4519.34	3308.52	0.10	-3308.57	0.57	3308.57	270.00
7837.00	90.94	265.09	4518.91	3339.40	-2.75	-3339.44	2.45	3339.44	269.95
7868.00	90.84	265.09	4518.42	3370.30	-5.40	-3370.32	0.32	3370.32	269.91
7899.00	90.57	266.54	4518.04	3401.22	-7.66	-3401.23	4.76	3401.24	269.87
7930.00	90.84	265.89	4517.66	3432.16	-9.71	-3432.16	2.27	3432.18	269.84
7961.00	91.31	265.82	4517.08	3463.09	-11.95	-3463.08	1.53	3463.10	269.80
7992.00	91.55	267.36	4516.31	3494.03	-13.79	-3494.01	5.03	3494.04	269.77
8023.00	91.38	265.25	4515.51	3524.97	-15.79	-3524.93	6.83	3524.97	269.74
8054.00	91.38	267.08	4514.77	3555.90	-17.86	-3555.85	5.90	3555.90	269.71
8085.00	91.52	266.65	4513.98	3586.85	-19.56	-3586.80	1.46	3586.85	269.69
8117.00	91.48	267.17	4513.14	3618.80	-21.28	-3618.74	1.63	3618.80	269.66
8148.00	91.58	265.67	4512.32	3649.74	-23.22	-3649.67	4.85	3649.74	269.64
8179.00	91.48	267.06	4511.49	3680.68	-25.18	-3680.59	4.49	3680.68	269.61
8210.00	91.35	267.18	4510.72	3711.64	-26.74	-3711.55	0.57	3711.64	269.59
8241.00	91.35	266.56	4509.99	3742.59	-28.43	-3742.49	2.00	3742.60	269.56
8273.00	91.42	267.54	4509.22	3774.55	-30.08	-3774.44	3.07	3774.56	269.54
8304.00	91.68	266.28	4508.38	3805.50	-31.75	-3805.38	4.15	3805.51	269.52
8335.00	92.16	267.76	4507.34	3836.45	-33.36	-3836.32	5.02	3836.47	269.50
8343.00	92.16	267.79	4507.04	3844.44	-33.67	-3844.31	0.37	3844.46	269.50
8409.00	92.16	267.79	4504.55	3910.35	-36.21	-3910.21	0.00	3910.38	269.47