

UNITED STATES
DEPARTMENT OF THE INTERIOR
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 13 2007
OCD-ARTESIA

5. Lease Serial No.
NM 100528

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No
Chartreuse Spanker Fed Col H

9. API Well No.
30-015-34834

10. Field and Pool, or Exploratory
Wolfcamp

11. Sec, T, R, M, on Block and
Survey or Area Sec 34, T17S, R23E

12. County or Parish
Eddy

13 State
NM

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

17. Elevations (DF, RKB, RT, GL)*
3956' KB 3938' GL

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

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
Choice 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)

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):

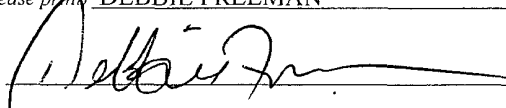
33. Indicate which items have been attached by placing a check in the appropriate boxes

- ☒ 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

AUG 13 2007

OCD-ARTESIA



AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34834	² Pool Code 7760	³ Pool Name GOPHER Wolfcamp (Gas)
⁴ Property Code 35638	⁵ Property Name CHARTREUSE SPANKER (AS-DRILLED)	
⁷ OGRID No. 5898	⁸ Operator Name DAVID H. ARRINGTON OIL & GAS, Inc.	
		⁶ Well Number 1H
		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 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 NAD 27 NME ZONE X = 395673 Y = 649897 LAT.: N 32.7861980 LONG.: W 104.6728066 772' 688' 724' 700' 752' 660'	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 surveys 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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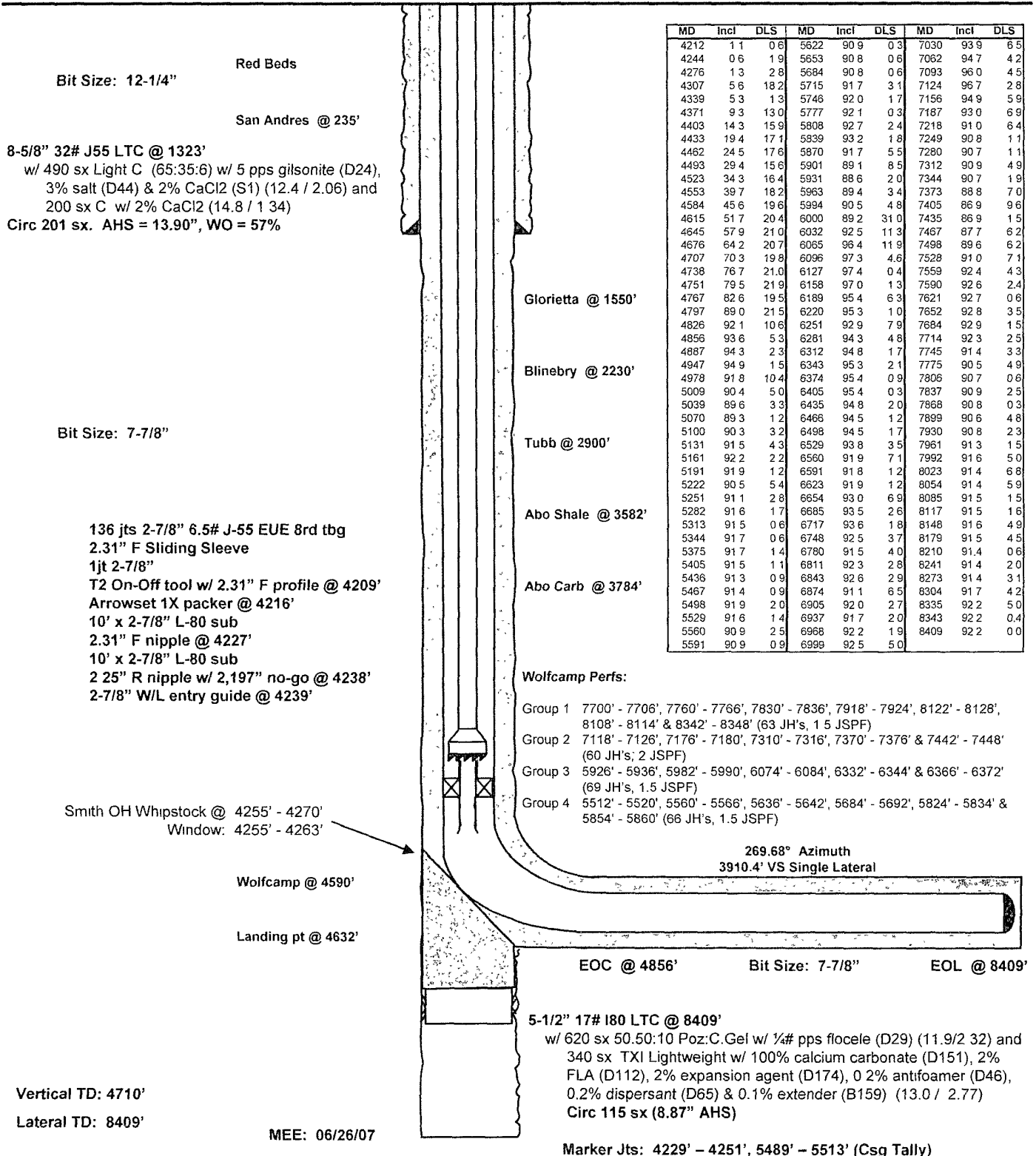
**Chartreuse Spanker Fed Com 1H
Cottonwood Creek Field
Eddy County, New Mexico**

**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**



Current

WELL NAME: Chartreuse 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: Abo / Wolfcamp DATE: 5/1/2007
 TMD: 8409' M PBD: ' ELEVATION: 3938' KB: 3956' LAST UPDATE: 5/10/2007

PIPE DATA											PERFORMANCE			CEMENT & HOLE DATA				
CSG	OD	ID	Drift	GRADE	TMD	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 N80	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'

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
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)								
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

8342' 8108' 7918' 7830' 7760' 7700' 7442' 7370' 7310' 7176' 7118' 6366' 6332' 6074' 5982' 5926' 5854' 5824' 5684' 5636' 5560' 5512'

Interval 4

Interval 3

Interval 2

Interval 1



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

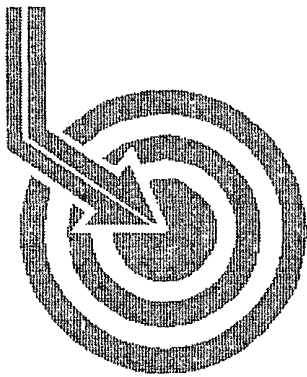
STATE OF NEW MEXICO)
COUNTY OF EDDY)

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

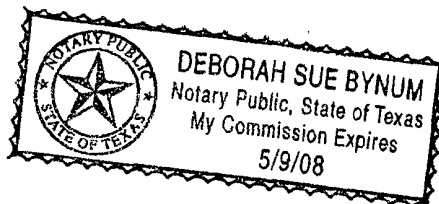
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com #1H
Wellpath: VH - Job #32K0307268
Survey: 03/31/07

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

Deborah Sue Bynum.....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
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
Start Date: 03/31/2007
Company: Scientific Drilling Internatio
Engineer: Gonzales w/P&M
Tool: Keeper, Keeper Gyro
Tied-to: From Surface

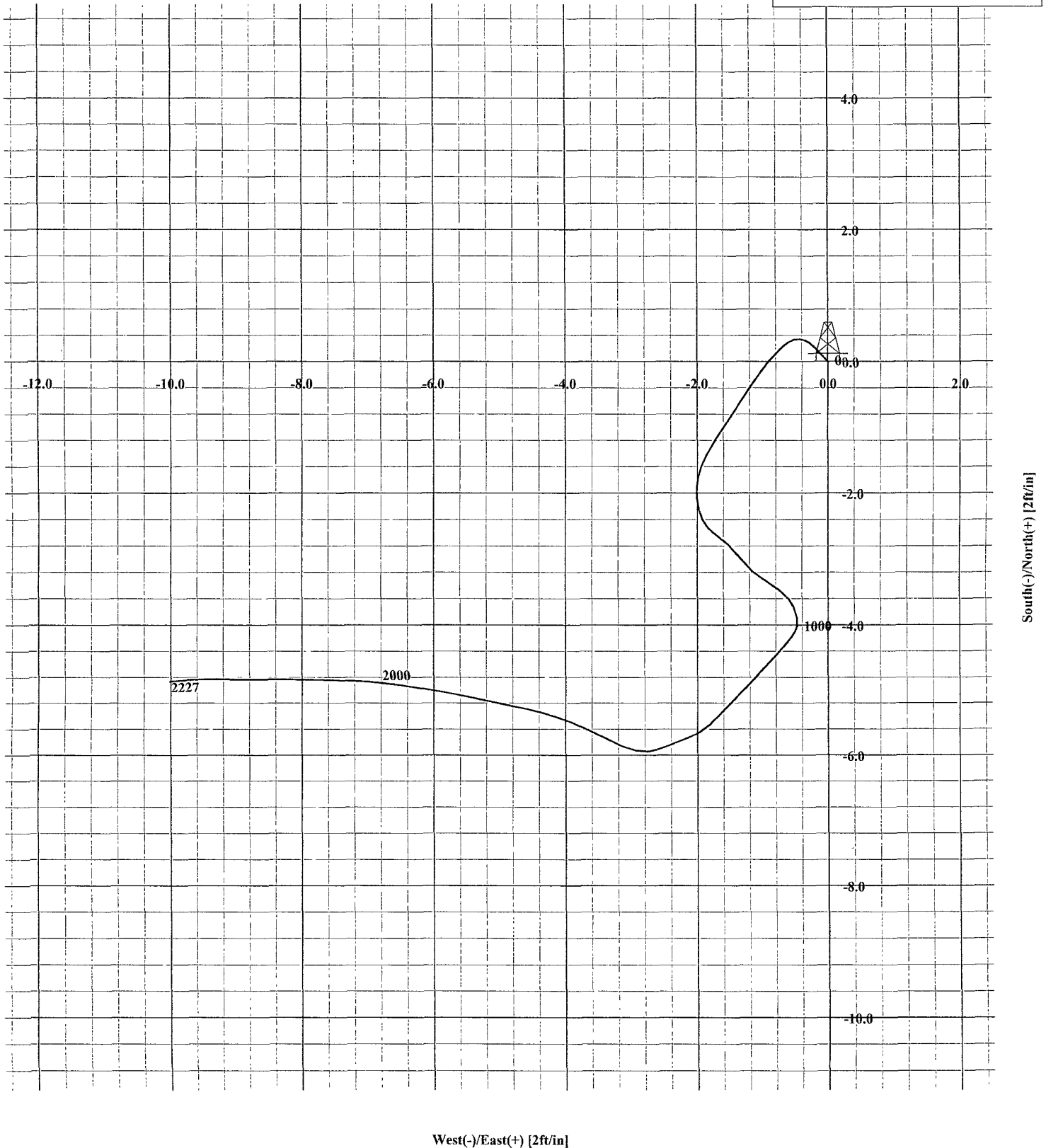
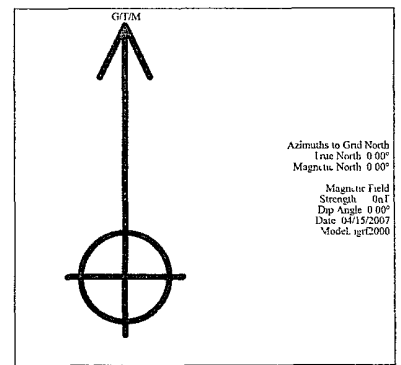
Survey

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





PathFinder Energy Services, Inc.

3201 E. Loop 250 North Midland, TX 79705 Phone: 432-687-1647 Fax: 432-687-1544

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". The signature is fluid and cursive, with a large initial "F" and "S".

Francisco Sinisterra
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh

Pathfinder Energy Service, Inc.

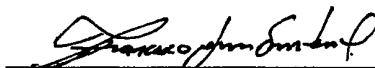


DIRECTIONAL SURVEY COMPANY REPORT:

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.

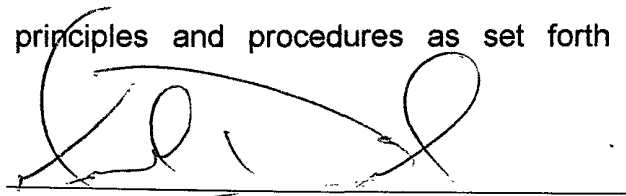
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 2568.35 FEET ON A BEARING OF 269.98 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 7,061 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



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:	J W #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

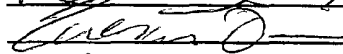
TIE-IN SURVEY

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

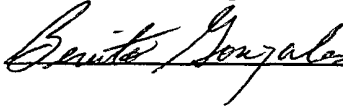
KICKOFF DEPTH:	4164	TOTAL DEPTH:
KICKOFF ANGLE:	0.97	MAX ANGLE:

PES Engineers:

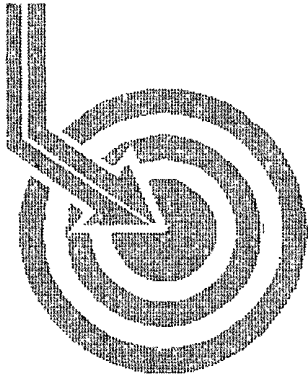



**Signature of both field engineers required if applicable

Directional Driller:



DATE: 05 APR 07



Scientific Drilling

DAVID H. ARRINGTON OIL & GAS

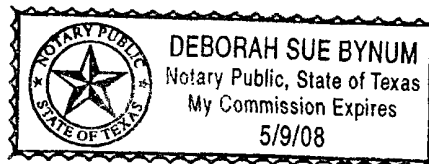
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Chartreuse Spanker Federal Com #1H
Wellpath: DH - Job #32D0407318
Survey: 04/19/07-04/30/07

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	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

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