

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

Month - Year
MAR - 7 2007
OCD - ARTESIA, NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-63914	² Pool Code 75250	³ Pool Name Cottonwood Creek, Wolfcamp Gas
⁴ Property Code 36366	⁵ Property Name COPPER JOHN	⁶ Well Number 1H
⁷ OGRID No. 5898	⁸ Operator Name DAVID H. ARRINGTON OIL & GAS	⁹ Elevation 3400'

¹⁰ Surface Location

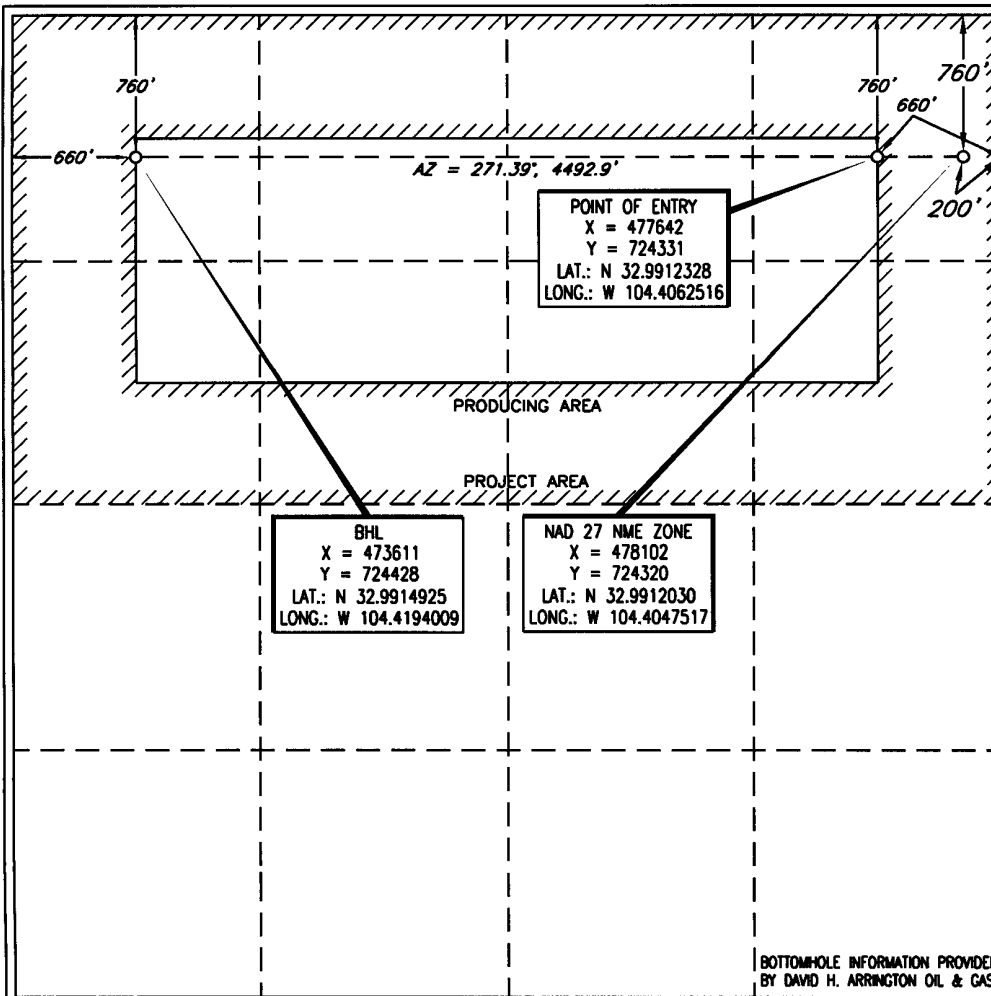
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	15 SOUTH	25 EAST, N.M.P.M.		760'	NORTH	200'	EAST	CHAVES

¹¹ 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
D	26	15 SOUTH	25 EAST, N.M.P.M.		760'	NORTH	660'	WEST	CHAVES

¹² Dedicated Acres 320	¹³ Joint or Infill -	¹⁴ Consolidation Code -	¹⁵ Order No.
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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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Debbie Freeman* Date: 3/6/07
Printed Name: Debbie Freeman

¹⁸ SURVEYOR CERTIFICATION

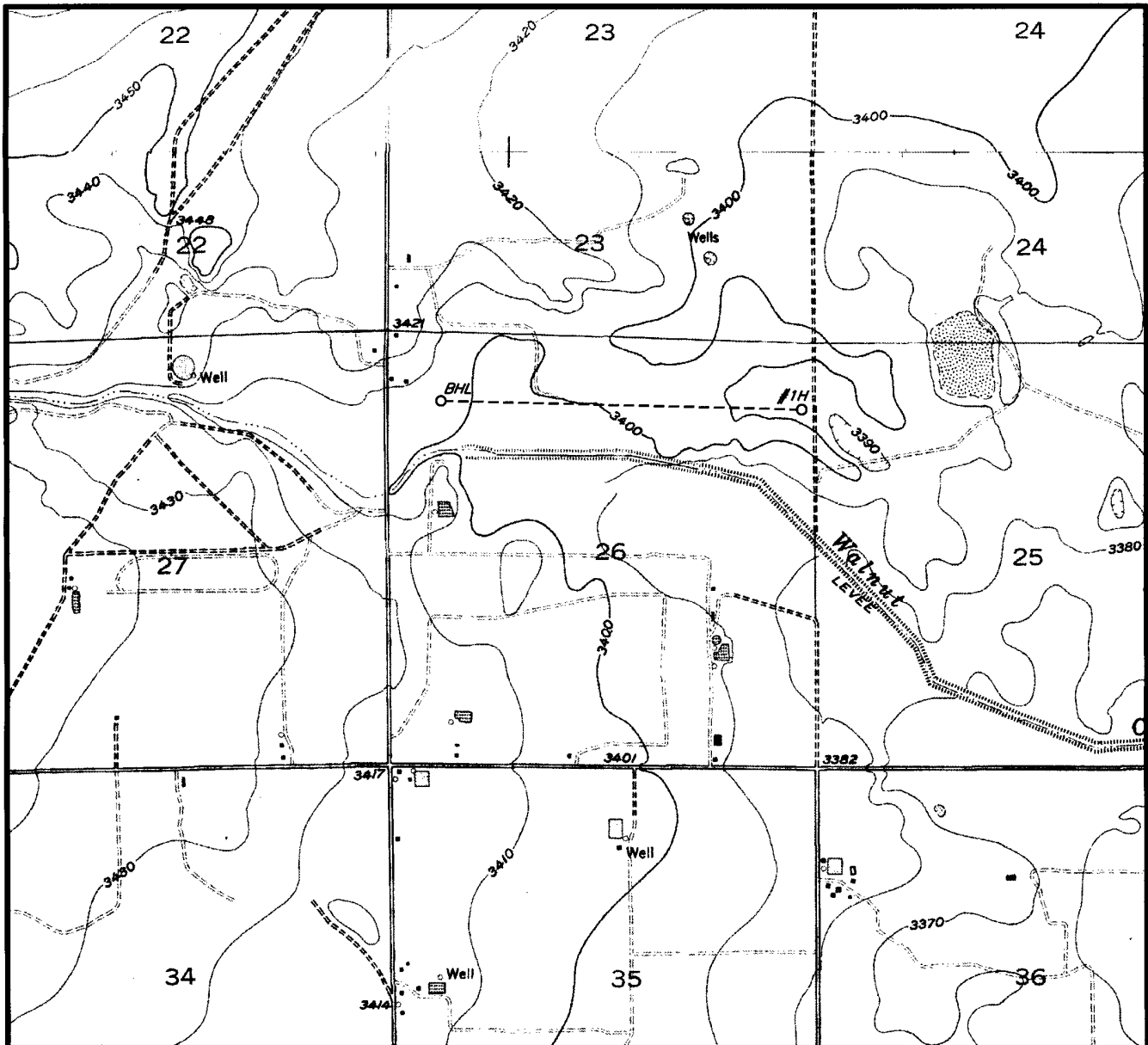
I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor
V. L. BEZNER
7920
DECEMBER 27, 2006

Signature: *V. L. Bezner*
Certificate Number: V. L. BEZNER R.P.S. #7920
JOB # 119735 / 125 SW / E.U.O.

BOTTOMHOLE INFORMATION PROVIDED
BY DAVID H. ARRINGTON OIL & GAS

LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000'

CONTOUR INTERVAL 10'

SECTION 26 TWP 15-S RGE 25-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY CHAVES STATE NM

DESCRIPTION 760' FNL & 200' FEL

ELEVATION 3400'

OPERATOR DAVID H. ARRINGTON OIL & GAS

LEASE COPPER JOHN #1H

U.S.G.S. TOPOGRAPHIC MAP

ESPUELA, NEW MEXICO

SCALED LAT. LAT.: N 32.9912030

LONG. LONG.: W 104.4047517

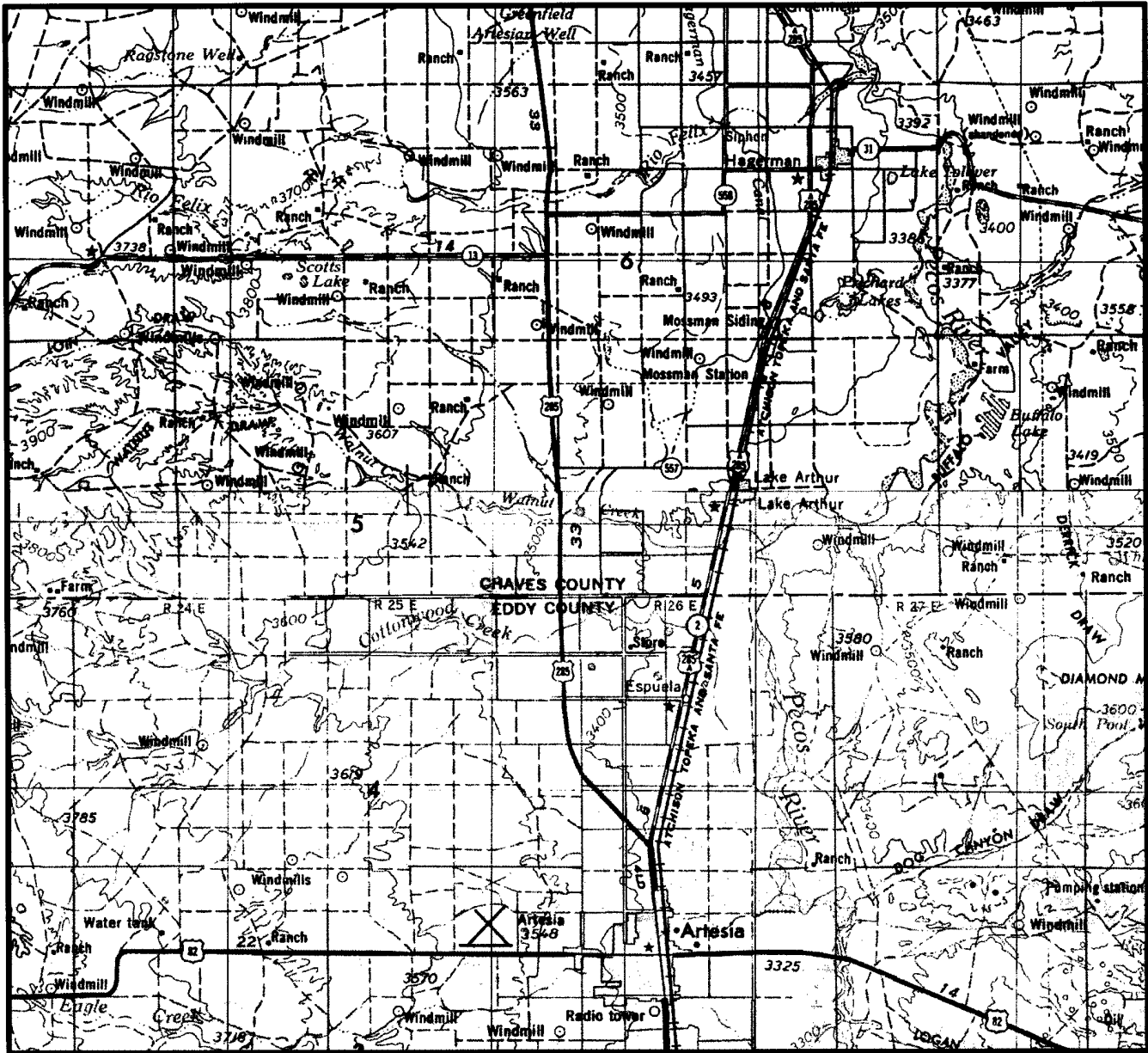


TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

2903 N. BIG SPRING
MIDLAND, TX. 79705
(800) 767-1653

VICINITY MAP



SECTION 26 TWP 15-S RGE 25-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY CHAVES STATE NM

DESCRIPTION 760' FNL & 200' FEL

OPERATOR DAVID H. ARRINGTON OIL & GAS

LEASE COPPER JOHN #1H

DISTANCE & DIRECTION FROM INTERSECTION OF HWY.

285 & HWY. 82, GO NORTH ±11.6 MILES ON HWY. 285,

THENCE EAST ±2.1 MILES ON PAVED ROAD, THENCE SOUTH

0.4 MILES ON TRAIL ROAD TO A POINT ±4000' NORTH OF

THE LOCATION.



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MIDLAND, TX. 79705
(800) 767-1653



TOPOGRAPHIC
Surveying • Mapping • GIS • GPS

Topographic Land Surveyors
2903 N. Big Spring
Midland, Texas 79705
(432) 682-1653 (800) 767-1653

Company:	DAVID H. ARRINGTON OIL & GAS
County:	CHAVES COUNTY, NEW MEXICO
Area:	SECTION 26, T-15-S, R-25-E
Scale:	1" = 1000'
USGS Quad:	ESPUELA, NEW MEXICO

David H. Arrington Oil & Gas Inc.
 Copper John 1H
 SHL - 760' FNL & 200' FEL
 Penetration Point - 760' FNL & 660' FEL
 BHL - 760' FNL & 660' FWL
 S26, T15S, R25E
 Chaves County, NM

Drilling Plan

1. Ground elevation above sea level: 3400'
2. Proposed drilling depth: 9113' TMD
3. Estimated tops of geological markers:

Tubb	3250'
Abo Shale	3950'
Abo Reef	4250'
Wolfcamp	4865'

4. Possible mineral bearing formations:

Abo/Wolfcamp	Gas/Oil
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5. Casing Program

Hole size	Interval	OD of Casing	Weight	Thread	Grade	TOC
12-1/4"	40' - 1100'	8-5/8"	32#	LTC	J55	Surf
7-7/8"	1100' - 9113'	5-1/2"	17#	LTC	I80	Surf

Drill 7-7/8" vertical hole to ~4265' and begin 9.22 BUR to 5078'. Change out assembly for a BUR of 6.55 and land curve @ 5307' MD (4895' TVD). Drill ahead to a total measured depth of ~ 9113'. Run 5-1/2" production string to TD and cement to surface.

6. Cementing and Setting Depth

String	Depth	Sks	Slurry
8-5/8" Surface	1100'	410	Lead: Light C (65:35:6) w/ 5 pps gilsonite, 3% salt & 2% CaCl ₂ (12.4 / 2.06)
		200	Tail: C w/ 2% CaCl ₂ (14.8 / 1.34)
5-1/2" Production	9113'	590	Lead: Interfill C w/ 1/8# pps Poly-E-Flake (11.9 / 2.45)
		390	Tail: Howco Acid Soluble Cement w/ 10# silicalite 50/50 blend, 0.5% Halad 344, 0.2% HR-601 & 0.25 pps D-Air 3000 (14.8 / 2.68)

If necessary, will run a temperature survey and 1" to surface with C w/ 2% CaCl₂.

Both casing strings will be cemented to surface.

7. Pressure Control Equipment: After setting 8-5/8" casing and installing 3000 psi casing head, NU 11" 5000 psi double ram BOP and 3000 psi annular BOP, and test with clear fluid to 3000 psi using 3rd party testers.

8. Proposed Mud Circulating System

Interval	Mud Wt.	Visc.	FL	Type Mud System
40' - 1100'	8.5 - 8.6	32 - 38	NC	Fresh water gel/lime slurry. Add paper for seepage. If losses occur, utilize 15-25 lb/bbl LCM. If necessary, spot LCM pill for losses. If not regained, dry drill to depth.
1100' - 9113'	8.4 - 9.3	28 -38	NC-12	Fresh water-cut brine. Drill out w/ fresh water using paper and high viscosity sweeps for seepage and hole cleaning. At ~ 3,800' add brine and mud up utilizing starch/PAC system. Add XCD polymer for viscosity and white starch for fluid loss control. Sweep as necessary for hole cleaning.

Proposed Drilling Plan:

Drill 12-1/4" surface hole to 1100'. Run 8-5/8" and cement to surface.

Drill 7-7/8" vertical hole to ~4265' and begin 9.22 BUR to 5078'. Change out assembly for a BUR of 6.55 and land curve @ 5307' MD (4895' TVD). Drill ahead to a total measured depth of ~ 9113'. Run 5-1/2" production string to TD and cement to surface.



Job Number: []
 Company: David H. Arrington Oil & Gas
 Lease/Well: Copper John #1H
 Location: Chaves County
 Rig Name: []
 RKB: []
 G.L. or M.S.L.: []

State/Country: New Mexico
 Declination: []
 Grid: []
 File name: C:\DOCUME~1\RIKMA~1\MYDOCU~1\PROPOS~1\ARF
 Date/Time: 02-Mar-07 / 10:37
 Curve Name: Preliminary Plan

The Directional Drilling Company

WINERVE PROPOSAL REPORT Minimum Curvature Method Vertical Section Plane 271.39 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

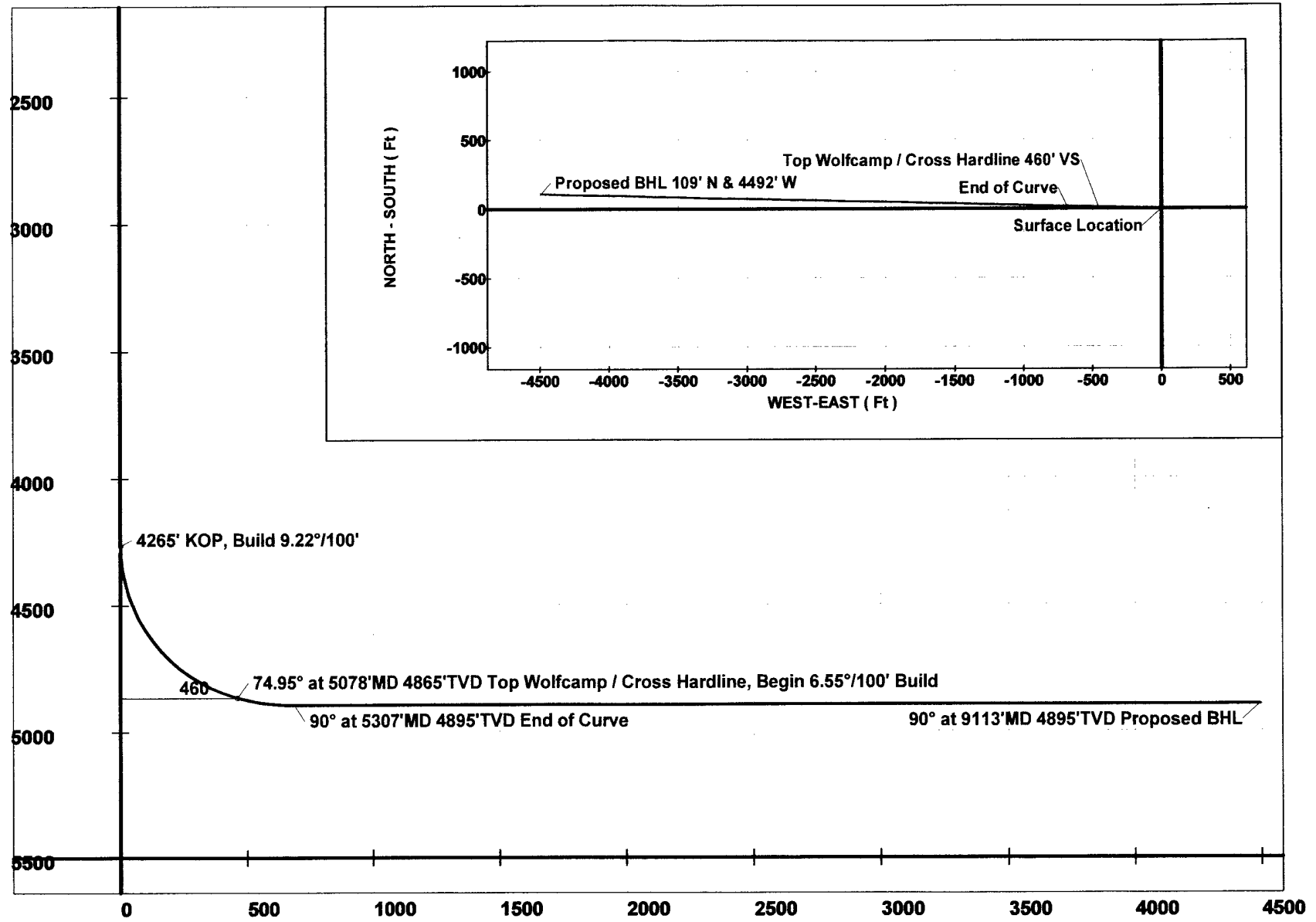
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP, Build 9.22°/100'									
4265.00	.00	271.39	4265.00	.00	.00	.00	.00	.00	.00
4315.00	4.61	271.39	4314.95	2.01	.05	-2.01	2.01	271.39	9.22
4365.00	9.22	271.39	4364.57	8.03	.19	-8.03	8.03	271.39	9.22
4415.00	13.83	271.39	4413.55	18.02	.44	-18.01	18.02	271.39	9.22
4465.00	18.44	271.39	4461.56	31.91	.77	-31.90	31.91	271.39	9.22
4515.00	23.05	271.39	4508.31	49.62	1.20	-49.61	49.62	271.39	9.22
4565.00	27.67	271.39	4553.48	71.03	1.72	-71.01	71.03	271.39	9.22
4615.00	32.28	271.39	4596.78	96.00	2.33	-95.97	96.00	271.39	9.22
4665.00	36.89	271.39	4637.94	124.37	3.02	-124.34	124.37	271.39	9.22
4715.00	41.50	271.39	4676.68	155.96	3.78	-155.92	155.96	271.39	9.22
4765.00	46.11	271.39	4712.75	190.56	4.62	-190.51	190.56	271.39	9.22
4815.00	50.72	271.39	4745.93	227.95	5.53	-227.88	227.95	271.39	9.22
4865.00	55.33	271.39	4776.00	267.88	6.50	-267.80	267.88	271.39	9.22
4915.00	59.94	271.39	4802.75	310.11	7.52	-310.01	310.11	271.39	9.22
4965.00	64.55	271.39	4826.03	354.34	8.60	-354.24	354.34	271.39	9.22
5015.00	69.16	271.39	4845.68	400.31	9.71	-400.19	400.31	271.39	9.22
5065.00	73.77	271.39	4861.56	447.70	10.86	-447.57	447.70	271.39	9.22
Top Wolfcamp / Cross Hardline, Begin 6.55°/100' Build									
5077.75	74.95	271.39	4865.00	459.98	11.16	-459.85	459.98	271.39	9.22
5127.75	78.23	271.39	4876.60	508.61	12.34	-508.46	508.61	271.39	6.55
5177.75	81.50	271.39	4885.40	557.82	13.53	-557.66	557.82	271.39	6.55
5227.75	84.78	271.39	4891.37	607.46	14.74	-607.28	607.46	271.39	6.55
5277.75	88.05	271.39	4894.49	657.35	15.95	-657.16	657.35	271.39	6.55

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
End of Curve									
5307.49	90.00	271.39	4895.00	687.08	16.67	-686.88	687.08	271.39	6.55
5507.49	90.00	271.39	4895.00	887.08	21.52	-886.82	887.08	271.39	.00
5707.49	90.00	271.39	4895.00	1087.08	26.37	-1086.76	1087.08	271.39	.00
5907.49	90.00	271.39	4895.00	1287.08	31.22	-1286.70	1287.08	271.39	.00
6107.49	90.00	271.39	4895.00	1487.08	36.07	-1486.64	1487.08	271.39	.00
6307.49	90.00	271.39	4895.00	1687.08	40.92	-1686.59	1687.08	271.39	.00
6507.49	90.00	271.39	4895.00	1887.08	45.78	-1886.53	1887.08	271.39	.00
6707.49	90.00	271.39	4895.00	2087.08	50.63	-2086.47	2087.08	271.39	.00
6907.49	90.00	271.39	4895.00	2287.08	55.48	-2286.41	2287.08	271.39	.00
7107.49	90.00	271.39	4895.00	2487.08	60.33	-2486.35	2487.08	271.39	.00
7307.49	90.00	271.39	4895.00	2687.08	65.18	-2686.29	2687.08	271.39	.00
7507.49	90.00	271.39	4895.00	2887.08	70.03	-2886.23	2887.08	271.39	.00
7707.49	90.00	271.39	4895.00	3087.08	74.89	-3086.17	3087.08	271.39	.00
7907.49	90.00	271.39	4895.00	3287.08	79.74	-3286.12	3287.08	271.39	.00
8107.49	90.00	271.39	4895.00	3487.08	84.59	-3486.06	3487.08	271.39	.00
8307.49	90.00	271.39	4895.00	3687.08	89.44	-3686.00	3687.08	271.39	.00
8507.49	90.00	271.39	4895.00	3887.08	94.29	-3885.94	3887.08	271.39	.00
8707.49	90.00	271.39	4895.00	4087.08	99.14	-4085.88	4087.08	271.39	.00
8907.49	90.00	271.39	4895.00	4287.08	103.99	-4285.82	4287.08	271.39	.00
9107.49	90.00	271.39	4895.00	4487.08	108.85	-4485.76	4487.08	271.39	.00
Proposed BHL									
9113.31	90.00	271.39	4895.00	4492.90	108.99	-4491.58	4492.90	271.39	.00

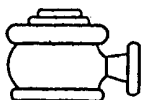
Company: David H. Arrington Oil & Gas
Lease/Well: Copper John #1H
Location: Chaves County
State/Country: New Mexico



TRUE VERTICAL DEPTH (Ft)

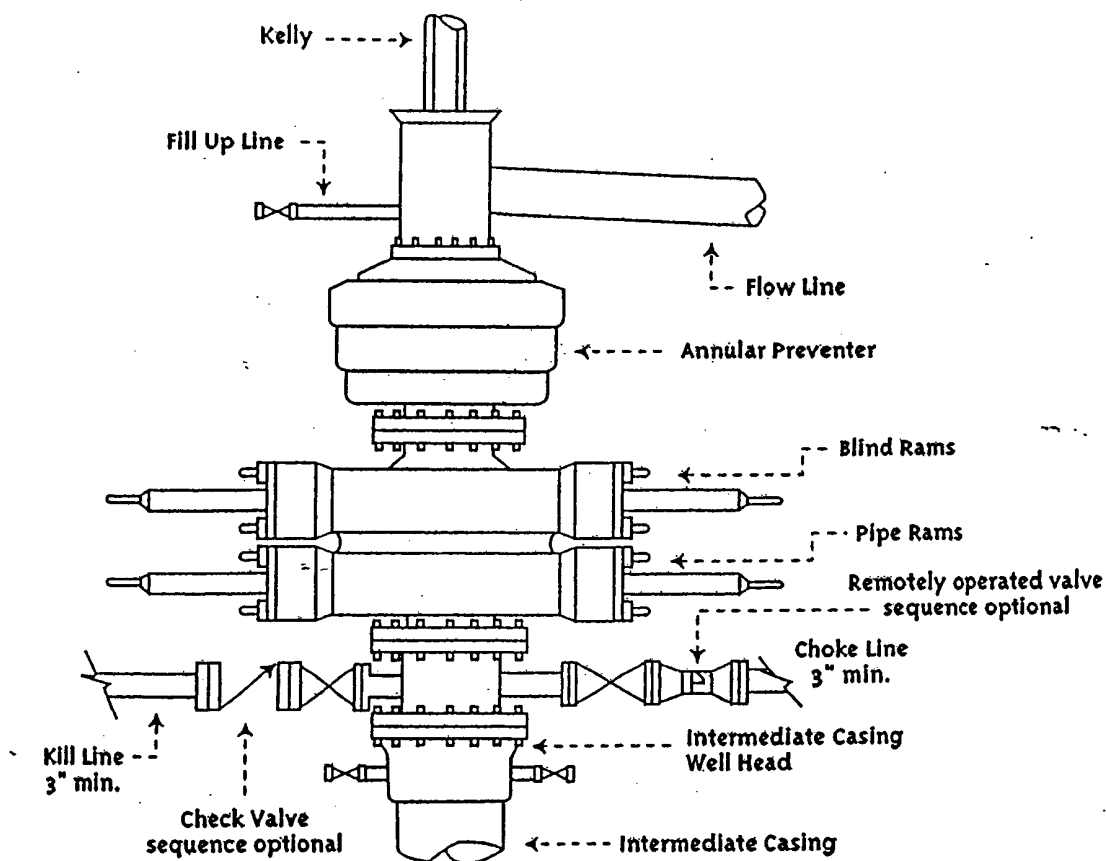


VERTICAL SECTION (Ft) @ 271.39°

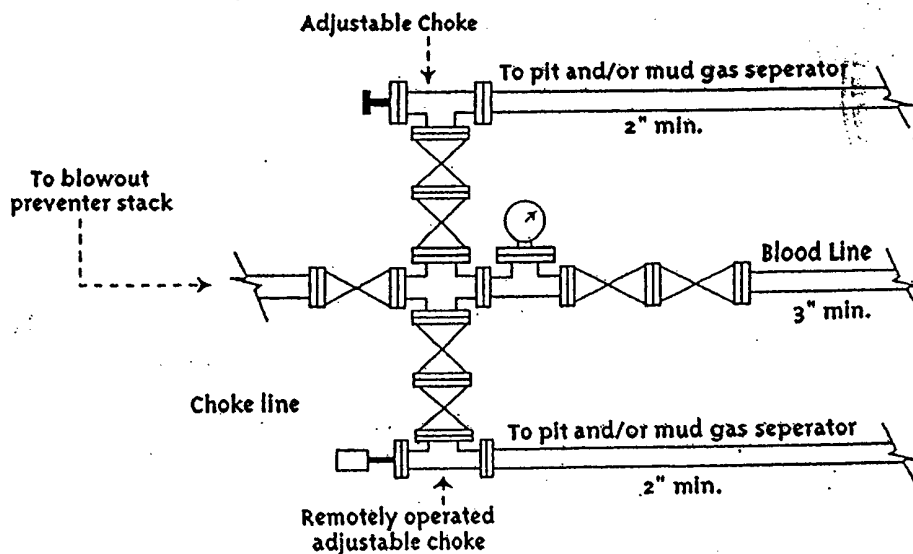


David H. Arrington Oil & Gas, Inc.

Typical 5,000 psi Pressure System
Schematic
Annular Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimum features



Copper John 1H
Cottonwood Creek Field
Chaves County, New Mexico

Surface Lateral Terminus
760' FNL 760' FNL
200' FEL 660' FWL
S-26
T15S, R25E

Proposed Wellbore

KB: 3419'
GL: 3400'

Bit Size: 12-1/4"

8-5/8" 32# J55 LTC @ 1100'
w/ 410 sx Light C (65:35:6) w/ 5 pps gilsonite, 3% salt
& 2% CaCl₂ (12.4 / 2.06) and
200 sx C w/ 2% CaCl₂ (14.8 / 1.34)
Assumed 100% WO gauge hole + 100 sx Lead

Tubb @ 3250'

Abo Shale @ 3950'

Bit Size: 7-7/8"

Abo Reef @ 4250'

KOP @ 4265' w/ 9.22° BUR to 5078' MD &
6.55° BUR to 5307' MD

Wolfcamp @ 4865'
Land @ 4895' TVD

Bit Size: 7-7/8"

5-1/2" 17# I80 LTC @ 9113'
w/ 590 sx Interfill C w/ 1/8# pps Poly-E-Flake (11.9 / 2.45) and
390 sx Howco Acid Soluble Cement w/ 10# silicalite 50/50 blend,
0.5% Halad 344, 0.2% HR-601 & 0.25 pps D-Air 3000 (14.8 / 2.68))
Cement Circulated (Assumed 8.75" AHS)

271.39° Az
4492.9' VS

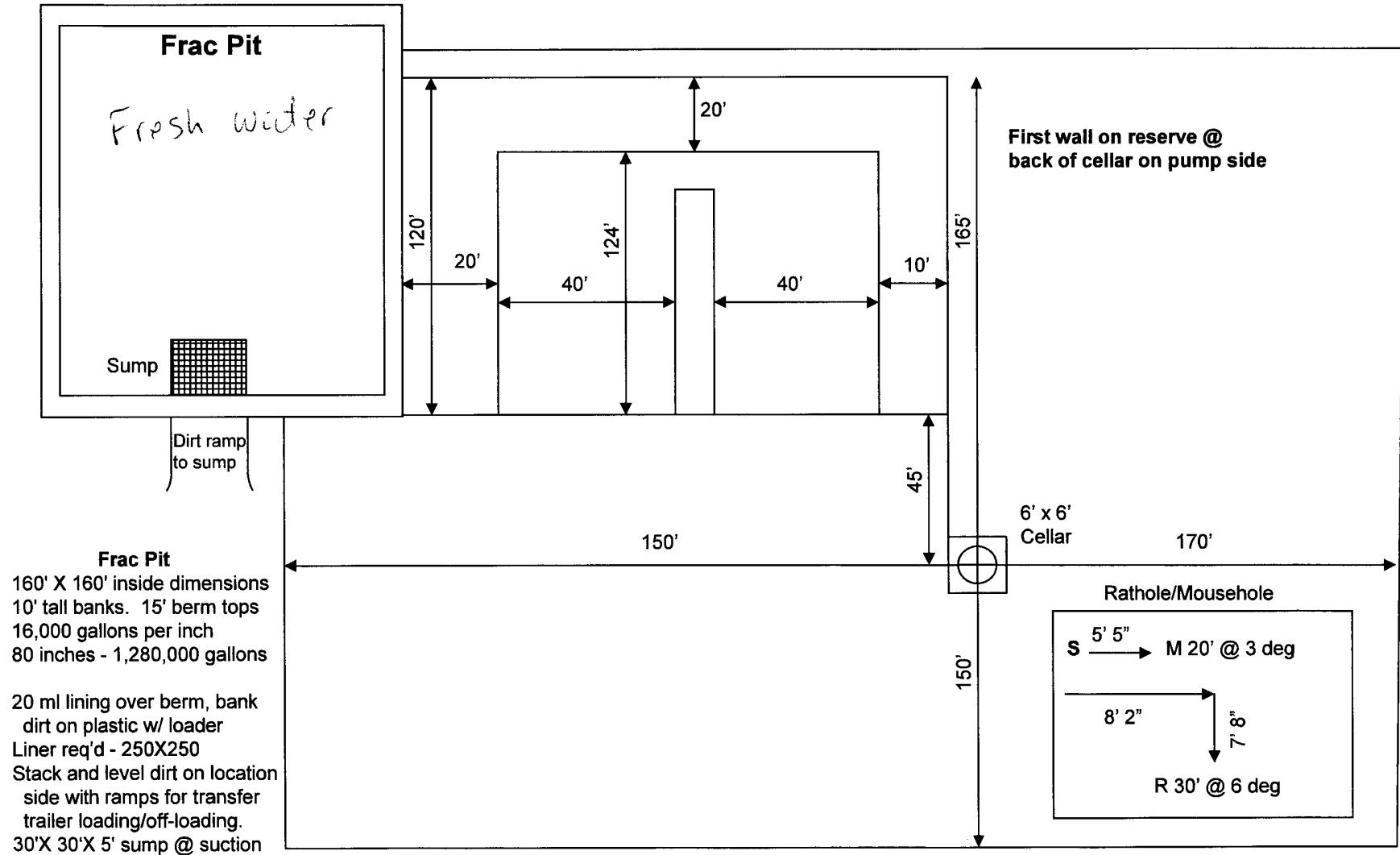
EOC @ 5307'

EOL @ 9113'

TD: 9113'

MEE: 03/06/07

Patterson Rig 624 Location Layout w/ Frac Pit



David H. Arrington Oil & Gas, Inc.
214 W. Texas Ave, Suite 400
Midland, TX 79701
432-682-6685 Office 432-682-4139 Fax



March 6, 2007

Oil Conservation Division
Attn: Mr. Bryan Arrant
1301 Grand Ave.
Artesia, NM 88210

RE: David H. Arrington Oil & Gas, Inc., **Copper John #1H**; Cottonwood Creek;
Wolfcamp, UL A, Sec 26, T15S, R25E, in Chaves County, NM.

It is not anticipated that we will encounter any H2S during the drilling or completion of the above referenced well.

We are respectfully requesting an exemption from H2S requirements as per NMOCD Rule 118. The anticipated TVD is 4895', the TMD is 9113' for this proposed horizontal well.

Thank you,

A handwritten signature in cursive script, appearing to read "Debbie Freeman".

Debbie Freeman
David H. Arrington Oil & Gas
PO Box 2071
Midland, TX 79702
432-682-6685 ext 357

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 15S Range: 25E Sections: 23,25,26,27,35

NAD27 X: 478102 Y: 724320 Zone: C Search Radius: 10

County: CH Basin: Number: Suffix:

Owner Name: (First) _____ (Last) _____ ☐ Non-Domestic ☐ Domestic ☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 02/12/2007

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
RA	15S	25E	23				13	15	55	34
RA	15S	25E	25				4	30	140	85
RA	15S	25E	26				15	60	239	150
RA	15S	25E	27				14	35	78	51
RA	15S	25E	35				13	53	105	71

Record Count: 59