

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., 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

OIL CONSERVATION DISTRICT II  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
May 27, 2004

WELL API NO.	30-005-63824
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Bent Nail
8. Well Number	1H
9. OGRID Number	5898
10. Pool name or Wildcat	Wildcat; Wolfcamp Gas

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

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

3. Address of Operator  
PO BOX 2071  
MIDLAND, TX 79702

4. Well Location  
Unit Letter P : 760' feet from the South line and 370' feet from the East line  
Section 14 Township 15S Range 25E NMPM County Chaves

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3429' GR

Pit or Below-grade Tank Application  or Closure

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

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

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK
- TEMPORARILY ABANDON
- PULL OR ALTER CASING
- OTHER: Change Location

SUBSEQUENT REPORT OF:

- PLUG AND ABANDON
- CHANGE PLANS
- MULTIPLE COMPL
- REMEDIAL WORK
- COMMENCE DRILLING OPNS.
- CASING/CEMENT JOB
- ALTERING CASING
- P AND A
- OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Due to Geological reasons, plan to change from S/N lateral to E/W lateral.  
 New surface location will be 760' FSL & 370' FEL - new lateral terminus 760' FSL & 660' FWL of sec 14.  
 Enclosed are an amended C102 and associated maps, proposed wellbore diagram, drilling plan and proposed directional plan.  
 H2S Contingency plan will be implemented.  
 Existing permit will expire 5/08/07, we respectfully request and extension until 5/08/08.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Debbie Freeman TITLE ENGINEER TECH DATE 03/05/2007

Type or print name DEBBIE FREEMAN E-mail address: DEBBIE@ARRINGTONOIL.COM Phone No. (432)682-6685

For State Use Only **BRYAN G. ARRANT**  
**DISTRICT II GEOLOGIST**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE **MAR 19 2007**

Conditions of Approval (if any):

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 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., 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

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO.	30-005-63824
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Bent Nail
8. Well Number	1H
9. OGRID Number	5898
10. Pool name or Wildcat	Wildcat; Wolfcamp Gas

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 3429' GR

Pit or Below-grade Tank Application  or Closure   
 Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_  
 Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: Change Location <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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SIGNATURE Debbie Freeman TITLE ENGINEER TECH DATE 03/05/2007

Type or print name DEBBIE FREEMAN E-mail address: DEBBIE@ARRINGTONOIL.COM Phone No. (432)682-6685  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any): \_\_\_\_\_

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

State of New Mexico

Form C-102

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

Energy, Minerals, and Natural Resources Department

Revised October 12, 2005

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

**S** OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

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

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-005-03824	<sup>2</sup> Pool Code 97480	<sup>3</sup> Pool Name Wildcat, Wolfcamp Gas
<sup>4</sup> Property Code 35585	<sup>5</sup> Property Name BENT NAIL	
<sup>7</sup> OGRID No. 5898	<sup>8</sup> Operator Name DAVID H. ARRINGTON OIL & GAS	<sup>6</sup> Well Number 1H
		<sup>9</sup> Elevation 3429'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	15 SOUTH	25 EAST, N.M.P.M.		760'	SOUTH	370'	EAST	CHAVES

<sup>11</sup> 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
M	14	15 SOUTH	25 EAST, N.M.P.M.		760'	SOUTH	660'	WEST	CHAVES

<sup>12</sup> Dedicated Acres 3.20	<sup>13</sup> Joint or Infill -	<sup>14</sup> Consolidation Code -	<sup>15</sup> 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 INFORMATION PROVIDED BY DAVID H. ARRINGTON OIL & GAS**

BHL  
X = 473603  
Y = 731265  
LAT.: N 33.0102851  
LONG.: W 104.4194450

NAD 27 NME ZONE  
X = 477940  
Y = 731269  
LAT.: N 33.0103045  
LONG.: W 104.4052952

POINT OF ENTRY  
X = 477650  
Y = 731269  
LAT.: N 33.0103033  
LONG.: W 104.4062412

AZ = 269.95°, 4337.6' IN ALL

PRODUCING AREA

PROJECT AREA

**<sup>17</sup> 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

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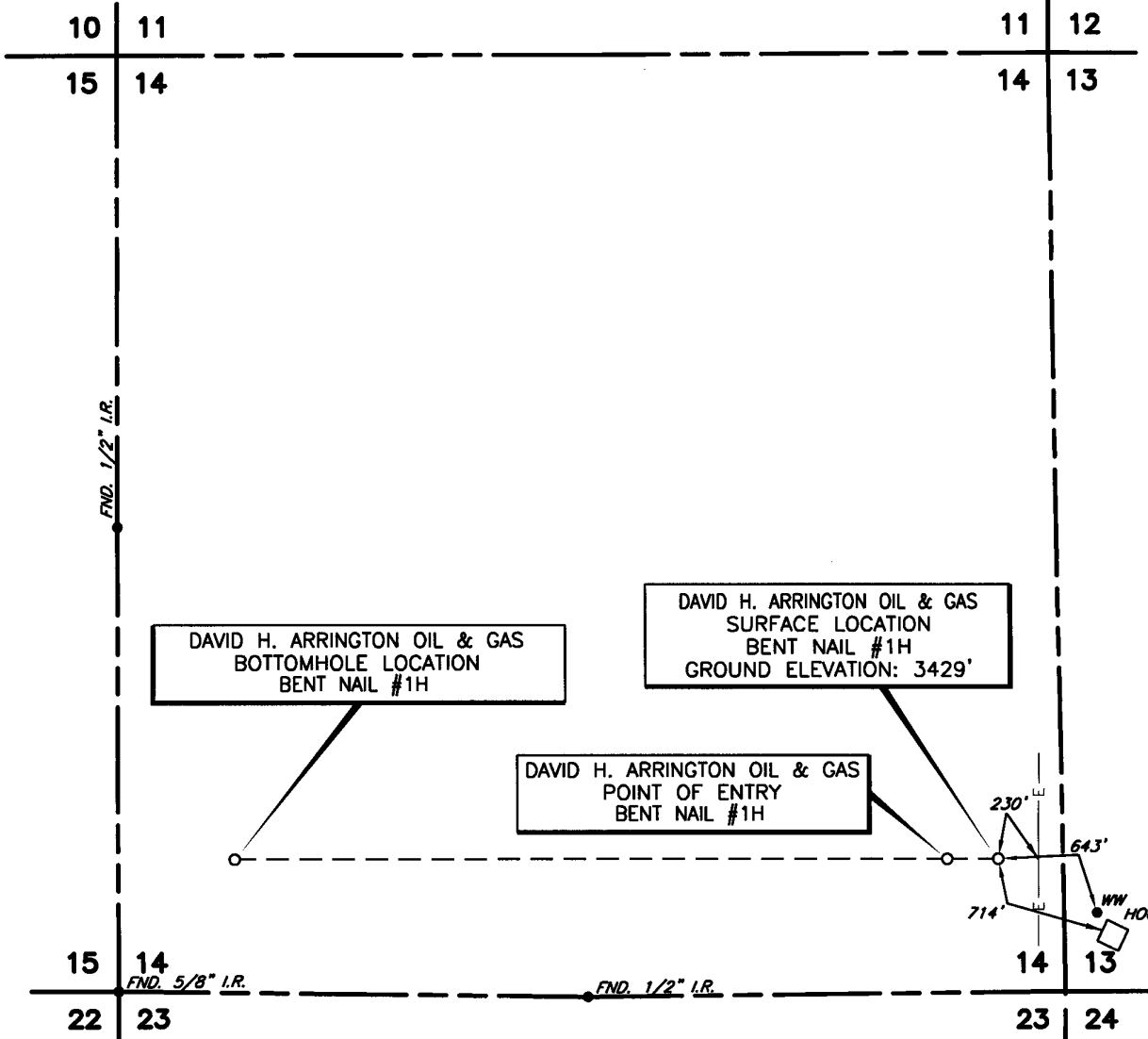
**<sup>18</sup> SURVEYOR CERTIFICATION**

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

Date of Survey: \_\_\_\_\_  
Signature: *V. L. Bezner*

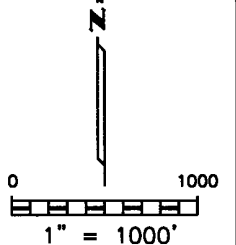
Certificate Number: V. L. BEZNER R.P.S. #7920  
JOB # 119731 / 125 SW / E.U.O.

SECTION 14, TOWNSHIP 15 SOUTH, RANGE 25 EAST, N.M.P.M.,  
 CHAVES COUNTY NEW MEXICO



DATE OF FIELD WORK: DECEMBER 27, 2006

I, V. L. BEZNER, A PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO AND AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, HEREBY CERTIFY THIS PLAT TO BE A TRUE REPRESENTATION OF A SURVEY PERFORMED IN THE FIELD UNDER MY SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS PLAT AND FIELD SURVEY UPON WHICH IT IS BASED MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. (RULE 500.6/EASEMENT SURVEYING)



BEARINGS AND COORDINATES BASED ON NEW MEXICO STATE PLANE GRID - EAST ZONE, NAD 27

*V. Lynn Bezner*  
 V. L. BEZNER, P.S. NO. 7920

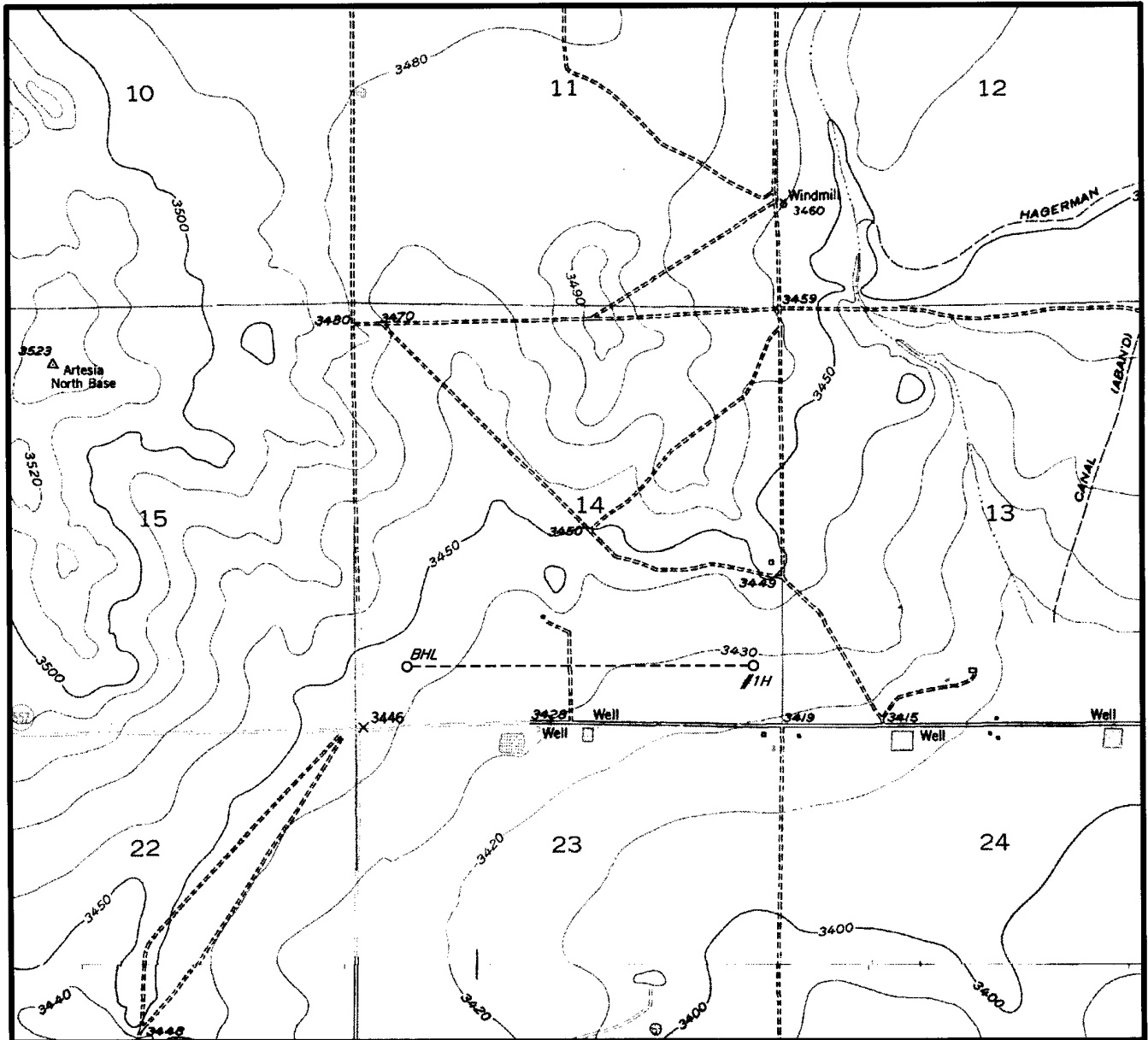
NO.	REVISION	DATE	BY
SURVEYED BY:		A.M.	
DRAWN BY:		E.U.O.	
APPROVED BY:		V.L.B.	

**DAVID H. ARRINGTON OIL & GAS, INC.**

SURVEYING AND MAPPING BY  
**TOPOGRAPHIC LAND SURVEYORS**  
 MIDLAND, TEXAS

SCALE:	1" = 1000'
DATE:	DECEMBER 27, 2006
JOB NO.:	119731-2
QUAD NO.:	125 SW
SHEET :	1 OF 1

# LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000'

CONTOUR INTERVAL 10'

SECTION 14 TWP 15-S RGE 25-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY CHAVES STATE NM

DESCRIPTION 760' FSL & 370' FEL

ELEVATION 3429'

OPERATOR DAVID H. ARRINGTON OIL & GAS

LEASE BENT NAIL #1H

U.S.G.S. TOPOGRAPHIC MAP  
HAGERMAN SW, NEW MEXICO

SCALED LAT. LAT.: N 33.0103045

LONG. LONG.: W 104.4052952

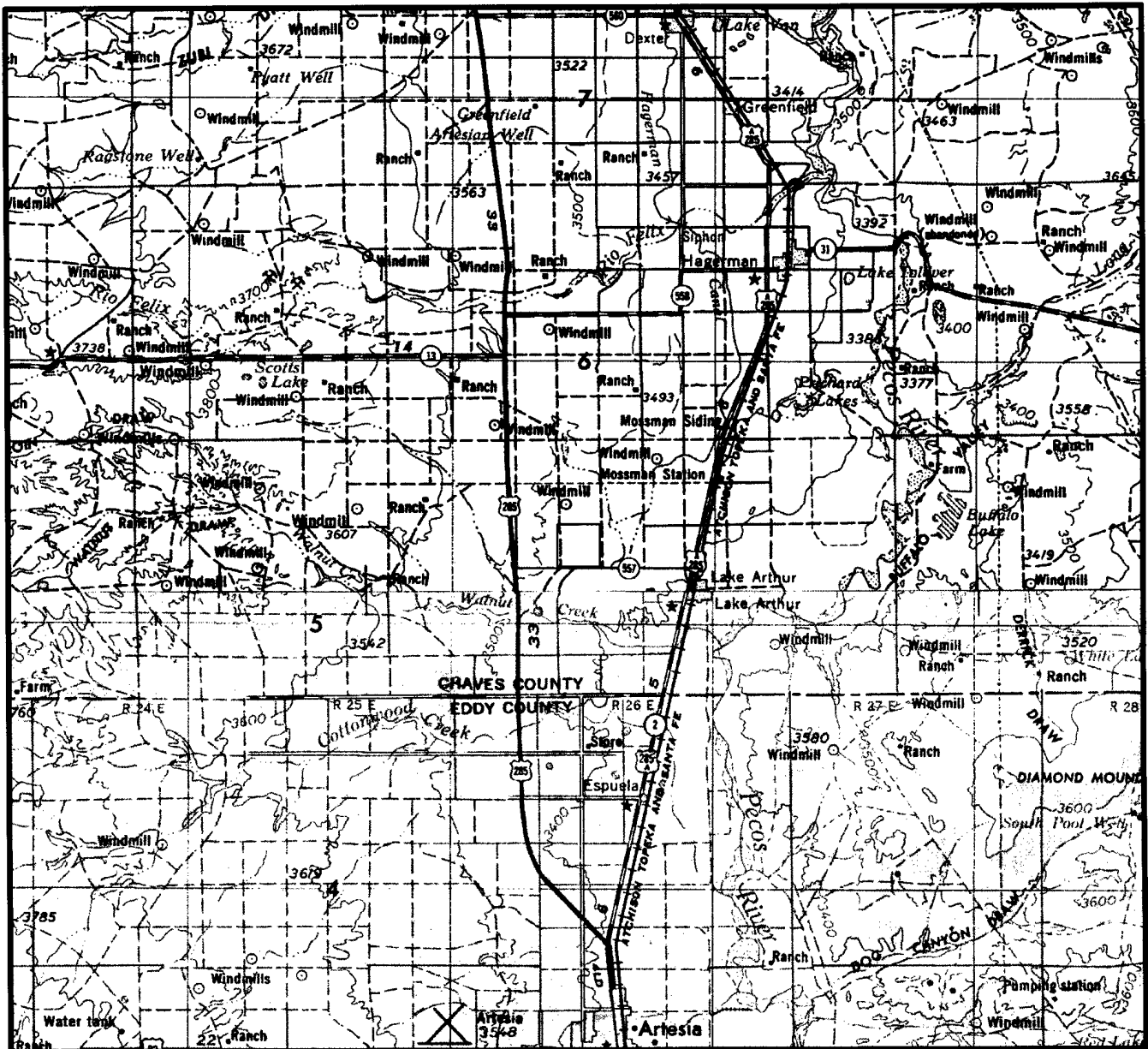


## TOPOGRAPHIC LAND SURVEYORS

*Surveying & Mapping for the Oil & Gas Industry*

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

# VICINITY MAP



SECTION 14 TWP 15-S RGE 25-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY CHAVES STATE NM

DESCRIPTION 760' FSL & 370' FEL

OPERATOR DAVID H. ARRINGTON OIL & GAS

LEASE BENT NAIL #1H

DISTANCE & DIRECTION FROM INTERSECTION OF HWY.

285 & HWY. 82, GO NORTH ±12.0 MILES ON HWY. 285,

THENCE EAST ±2.9 MILES ON PAVED ROAD, TO A POINT

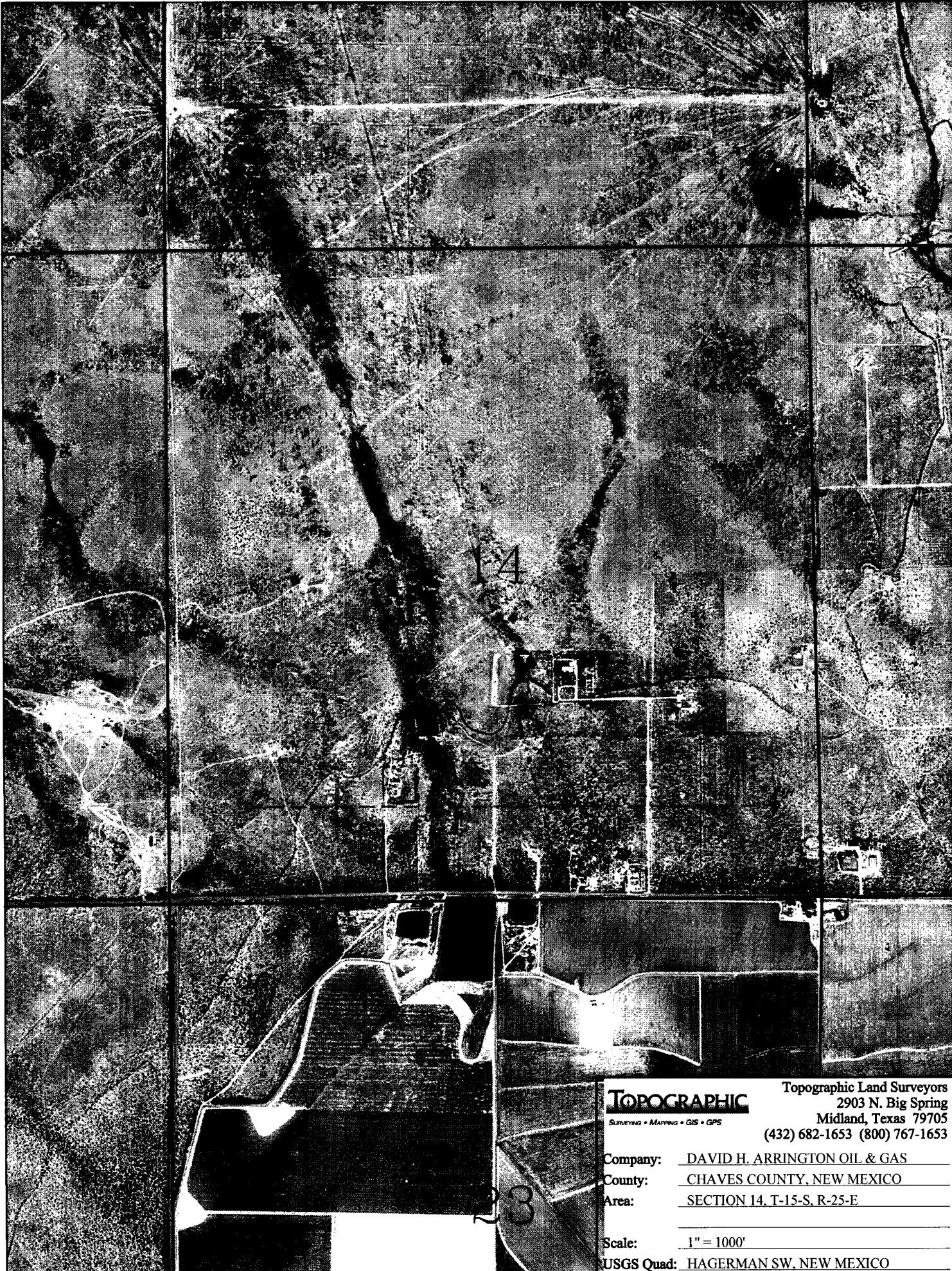
±750' SOUTH OF LOCATION.



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MIDLAND, TX. 79705  
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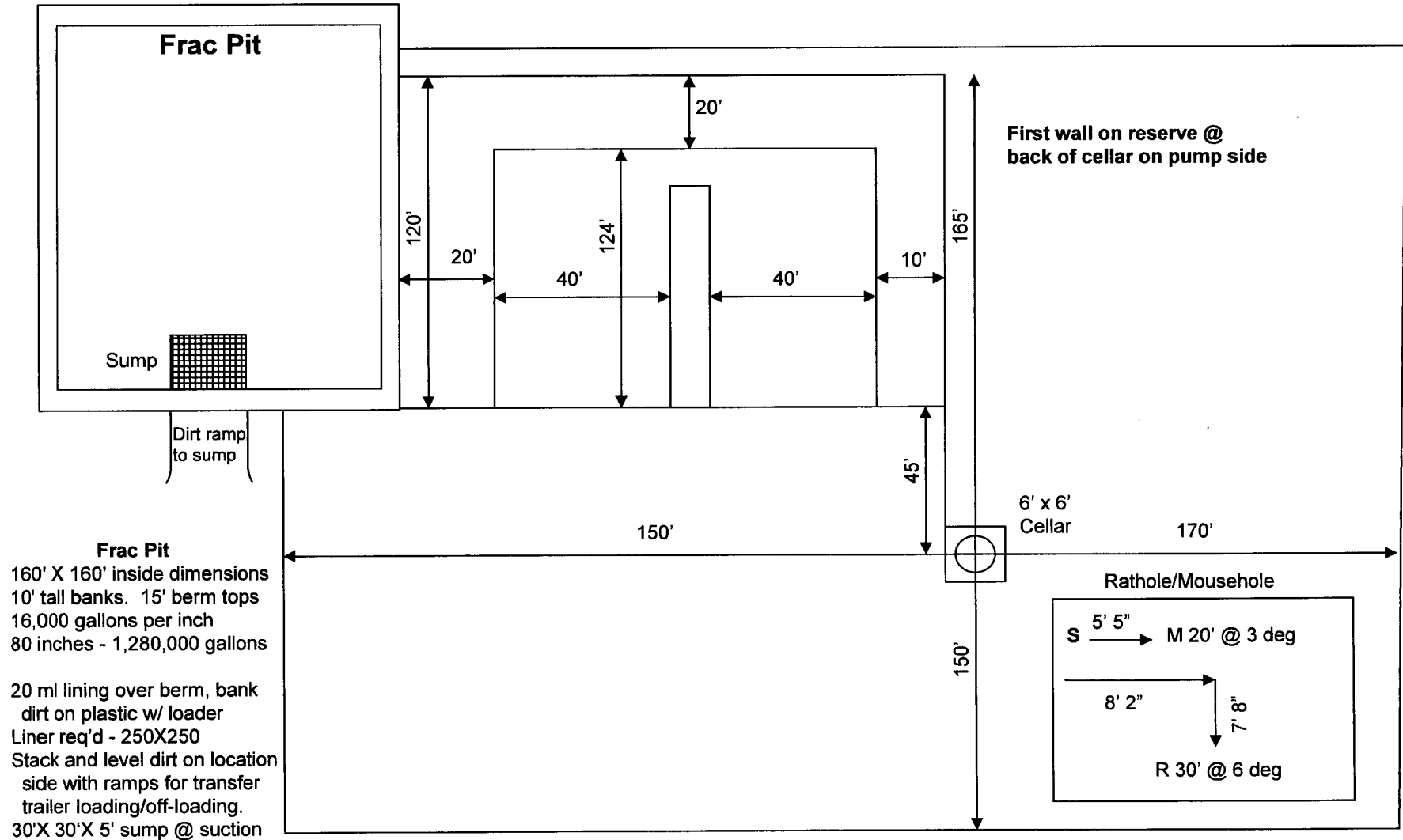


**TOPOGRAPHIC**  
SURVEYING • MAPPING • GIS • GPS

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 14, T-15-S, R-25-E  
Scale: 1" = 1000'  
USGS Quad: HAGERMAN SW, NEW MEXICO

# Patterson Rig 624 Location Layout w/ Frac Pit





David H. Arrington Oil & Gas Inc.  
 Bent Nail 1H  
 SHL - 760' FSL & 370' FEL  
 Penetration Point - 760' FSL & 660' FEL  
 BHL - 760' FSL & 660' FWL  
 S14, T15S, R25E  
 Chaves County, NM

1. Ground elevation above sea level: 3429'
2. Proposed drilling depth: 9038' 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

5. Casing Program

<u>Hole size</u>	<u>Interval</u>	<u>OD of Casing</u>	<u>Weight</u>	<u>Thread</u>	<u>Grade</u>	<u>TOC</u>
12-1/4"	40' - 1300'	8-5/8"	32#	LTC	J55	Surf
7-7/8"	1300' - 9038'	5-1/2"	17#	LTC	I80	Surf

Drill 7-7/8" vertical hole to ~4443' and drill 12.68 BUR curve to 5153'. (Land curve @ 4895' TVD). Drill ahead to a total measured depth of ~ 9038'. Run 5-1/2" production string to TD and cement to surface.

6. Cementing and Setting Depth

<u>String</u>	<u>Depth</u>	<u>Sks</u>	<u>Slurry</u>	
8-5/8" Surface	1300'	490	Lead:	Light C (65:35:6) w/ 5 pps gilsonite, 3% salt & 2% CaCl <sub>2</sub> (12.4 / 2.06)
		200	Tail:	C w/ 2% CaCl <sub>2</sub> (14.8 / 1.34)
5-1/2" Production	9038'	580	Lead:	Interfill C w/ 1/8# pps Poly-E-Flake (11.9 / 2.45)
		380	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% CaCl<sub>2</sub>.

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 3<sup>rd</sup> party testers.

8. Proposed Mud Circulating System

<u>Interval</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>FL</u>	<u>Type Mud System</u>
40' - 1300'	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.
1300' - 9038'	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 1300'. Run 8-5/8" and cement to surface.

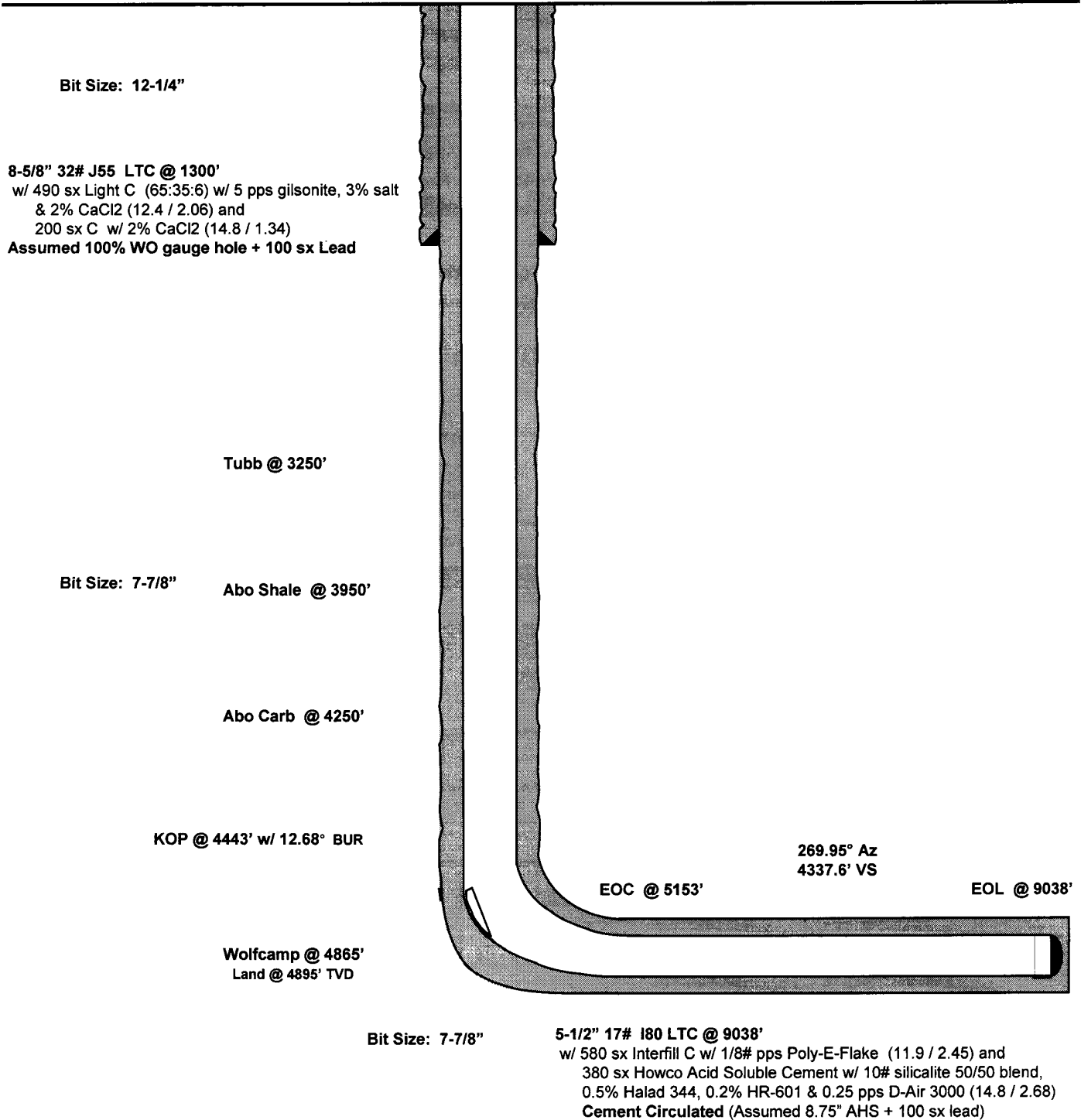
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**Bent Nail 1H  
Cottonwood Creek Field  
Chaves County, New Mexico**

<u>Surface</u>	<u>Lateral Terminus</u>
760' FSL	760' FSL
370' FEL	660' FWL
S-14	
T15S, R25E	

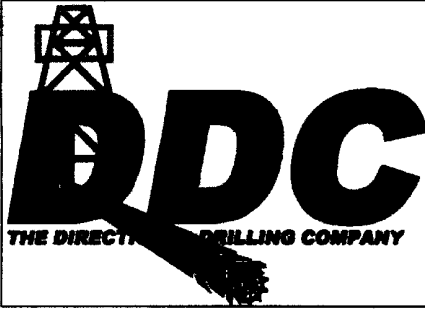
**Proposed Wellbore**

**KB: 3448'  
GL: 3429'**



TD: 9038'

MEE: 03/06/07



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

State/Country: New Mexico  
 Declination: [ ]  
 Grid: [ ]  
 File name: C:\DOCUME~1\RICKMA~1\MYDOCU~1\PROPOS~1\ARF  
 Date/Time: 02-Mar-07 / 09:40  
 Curve Name: Preliminary Plan

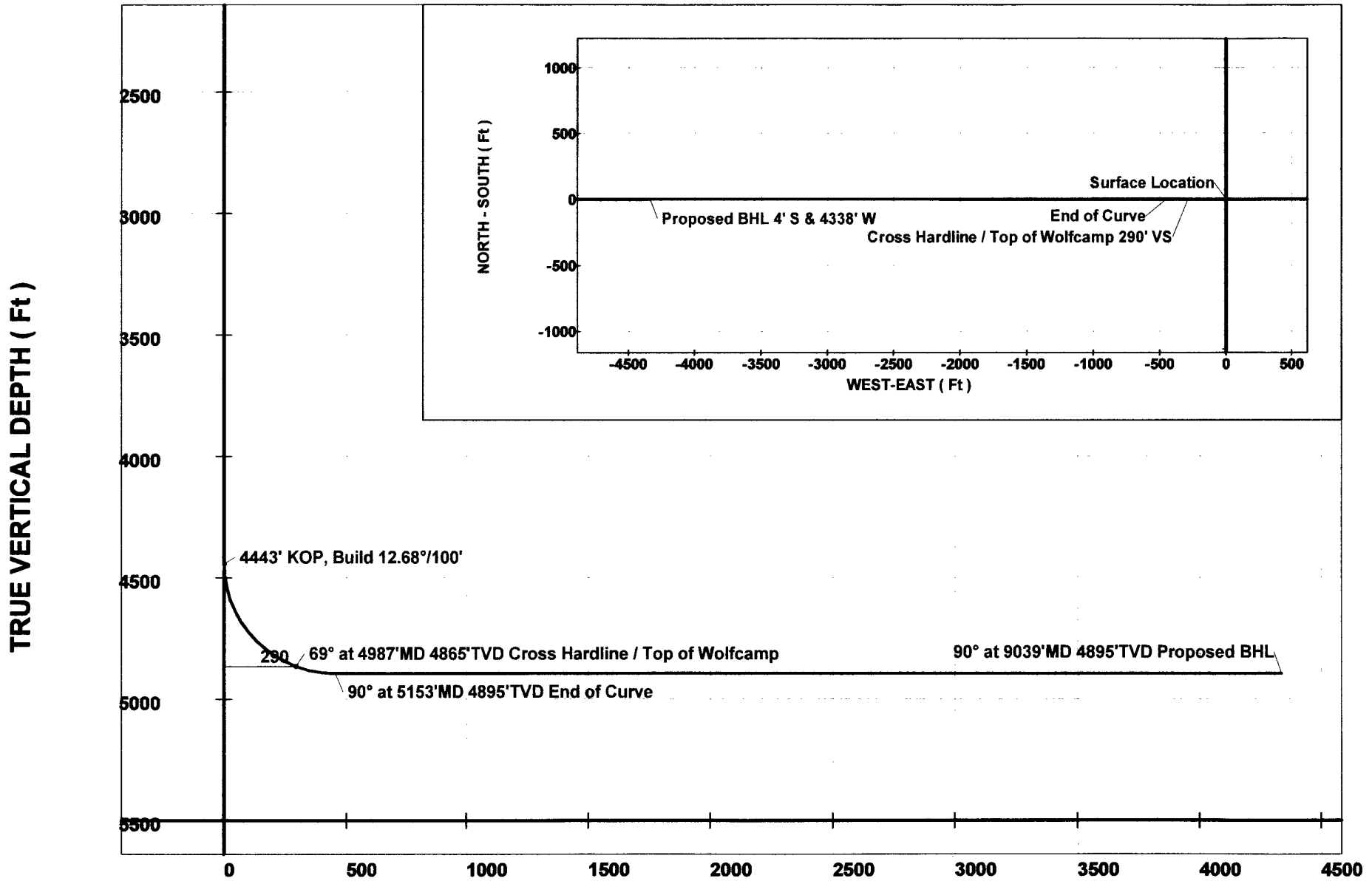
The Directional Drilling Company

WINSERVE PROPOSAL REPORT  
 Minimum Curvature Method  
 Vertical Section Plane 269.95  
 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
<b>KOP, Build 12.68°/100'</b>									
4443.00	.00	269.95	4443.00	.00	.00	.00	.00	.00	.00
4493.00	6.34	269.95	4492.90	2.76	.00	-2.76	2.76	269.95	12.68
4543.00	12.68	269.95	4542.19	11.02	-.01	-11.02	11.02	269.95	12.68
4593.00	19.01	269.95	4590.26	24.66	-.02	-24.66	24.66	269.95	12.68
4643.00	25.35	269.95	4636.54	43.53	-.04	-43.53	43.53	269.95	12.68
4693.00	31.69	269.95	4680.45	67.39	-.06	-67.39	67.39	269.95	12.68
4743.00	38.03	269.95	4721.45	95.96	-.08	-95.96	95.96	269.95	12.68
4793.00	44.37	269.95	4759.06	128.87	-.11	-128.87	128.87	269.95	12.68
4843.00	50.70	269.95	4792.80	165.74	-.14	-165.74	165.74	269.95	12.68
4893.00	57.04	269.95	4822.26	206.10	-.18	-206.10	206.10	269.95	12.68
4943.00	63.38	269.95	4847.09	249.47	-.22	-249.47	249.47	269.95	12.68
<b>Cross Hardline / Top of Wolfcamp</b>									
4987.39	69.01	269.95	4865.00	290.07	-.25	-290.07	290.07	269.95	12.68
4993.00	69.72	269.95	4866.98	295.32	-.26	-295.32	295.32	269.95	12.68
5043.00	76.06	269.95	4881.68	343.08	-.30	-343.08	343.08	269.95	12.68
5093.00	82.39	269.95	4891.02	392.18	-.34	-392.18	392.18	269.95	12.68
5143.00	88.73	269.95	4894.89	442.00	-.39	-442.00	442.00	269.95	12.68
<b>End of Curve</b>									
5153.00	90.00	269.95	4895.00	452.00	-.39	-452.00	452.00	269.95	12.68
5353.00	90.00	269.95	4895.00	652.00	-.57	-652.00	652.00	269.95	.00
5553.00	90.00	269.95	4895.00	852.00	-.74	-852.00	852.00	269.95	.00
5753.00	90.00	269.95	4895.00	1052.00	-.92	-1052.00	1052.00	269.95	.00

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		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5953.00	90.00	269.95	4895.00	1252.00	-1.09	-1252.00	1252.00	269.95	.00
6153.00	90.00	269.95	4895.00	1452.00	-1.27	-1452.00	1452.00	269.95	.00
6353.00	90.00	269.95	4895.00	1652.00	-1.44	-1652.00	1652.00	269.95	.00
6553.00	90.00	269.95	4895.00	1852.00	-1.62	-1852.00	1852.00	269.95	.00
6753.00	90.00	269.95	4895.00	2052.00	-1.79	-2052.00	2052.00	269.95	.00
6953.00	90.00	269.95	4895.00	2252.00	-1.97	-2252.00	2252.00	269.95	.00
7153.00	90.00	269.95	4895.00	2452.00	-2.14	-2452.00	2452.00	269.95	.00
7353.00	90.00	269.95	4895.00	2652.00	-2.31	-2652.00	2652.00	269.95	.00
7553.00	90.00	269.95	4895.00	2852.00	-2.49	-2852.00	2852.00	269.95	.00
7753.00	90.00	269.95	4895.00	3052.00	-2.66	-3052.00	3052.00	269.95	.00
7953.00	90.00	269.95	4895.00	3252.00	-2.84	-3252.00	3252.00	269.95	.00
8153.00	90.00	269.95	4895.00	3452.00	-3.01	-3452.00	3452.00	269.95	.00
8353.00	90.00	269.95	4895.00	3652.00	-3.19	-3652.00	3652.00	269.95	.00
8553.00	90.00	269.95	4895.00	3852.00	-3.36	-3852.00	3852.00	269.95	.00
8753.00	90.00	269.95	4895.00	4052.00	-3.54	-4052.00	4052.00	269.95	.00
8953.00	90.00	269.95	4895.00	4252.00	-3.71	-4252.00	4252.00	269.95	.00
<b>Proposed BHL</b>									
9038.60	90.00	269.95	4895.00	4337.60	-3.79	-4337.60	4337.60	269.95	.00

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



**VERTICAL SECTION ( Ft ) @ 269.95°**