

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

State of New Mexico

Form C-102

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

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

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34696	² Pool Code 75250	³ Pool Name Cottonwood Creek; Wolfcamp
⁴ Property Code	⁵ Property Name PASCHAL LAMB	⁶ Well Number 1H
⁷ OGRID No. 5898	⁸ Operator Name DAVID H. ARRINGTON OIL & GAS	⁹ Elevation 3825'

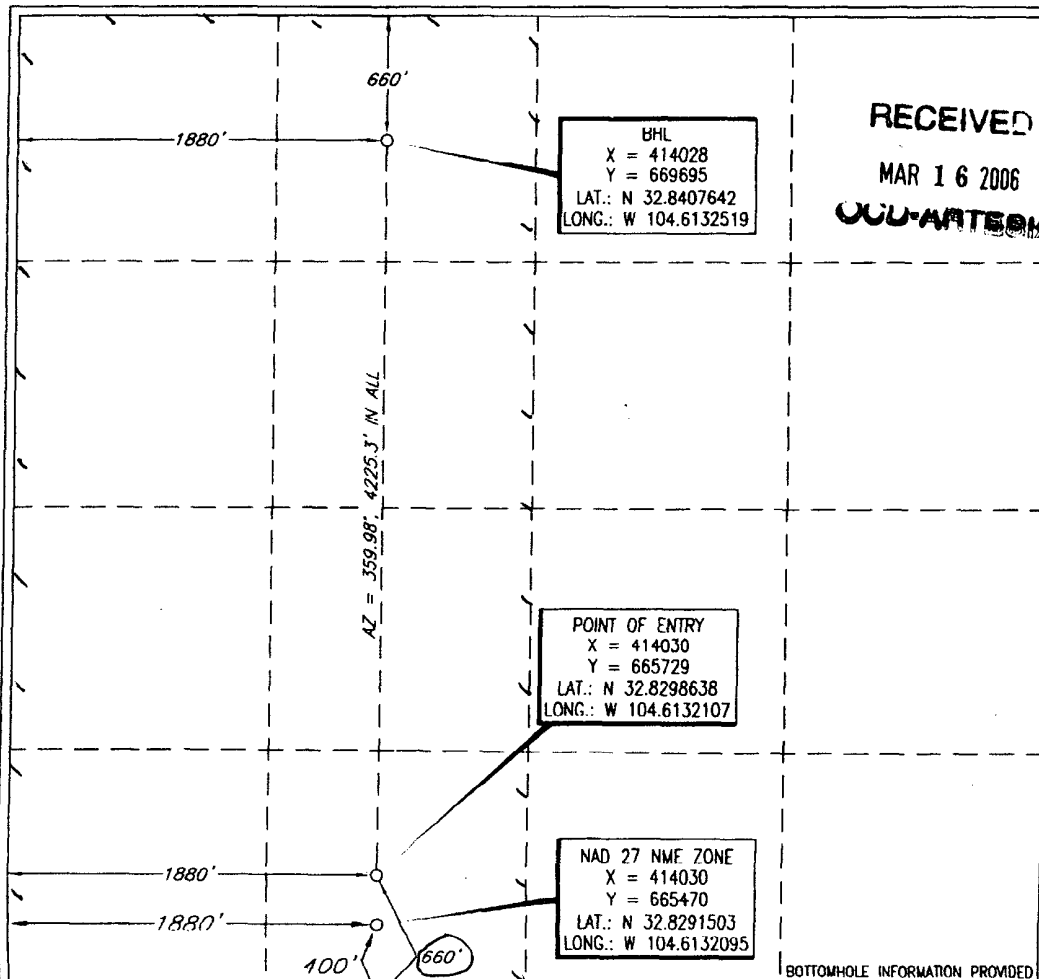
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	17 SOUTH	24 EAST, N.M.P.M.		400'	SOUTH	1880'	WEST	EDDY

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
C	17	17 SOUTH	24 EAST, N.M.P.M.		660'	NORTH	1880'	WEST	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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Ann E. Ritchie
Printed Name
Regulatory Agent
Title
3-13-06
Date

¹⁸ SURVEYOR CERTIFICATION

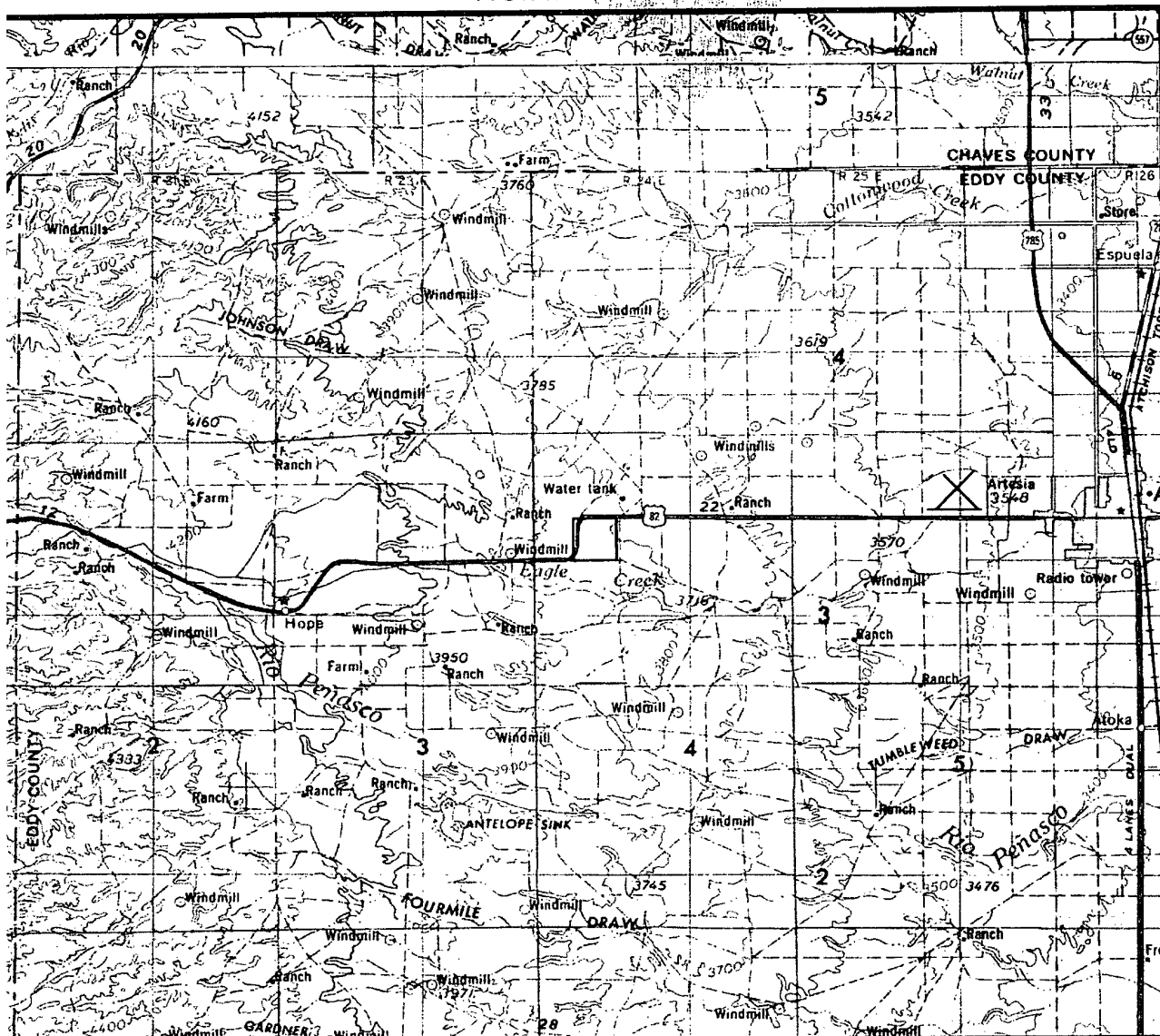
I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 7, 2006

Date of Survey
Signature and Seal of Professional Surveyor

V. LYNN BEZNER
NO. 7920
Certificate Number
V. L. BEZNER R.P.S. #7920
JOB # 111328 / 101 NE / E.U.O.

VICINITY MAP



SECTION 17 TWP 17-S RGE 24-E
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY EDDY STATE NM
 DESCRIPTION 400' FSL & 1880' FWL

OPERATOR DAVID H. ARRINGTON OIL & GAS
 LEASE PASCHAL LAMB #1H

DISTANCE & DIRECTION FROM ARTESIA GO WEST ON HWY.
82 12.2 MILES, THENCE SOUTH 8.5 MILES, THENCE EAST ON
TRAIL ROAD 0.4 MILES TO A POINT $\pm 375'$ SOUTH OF THE
LOCATION.



TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

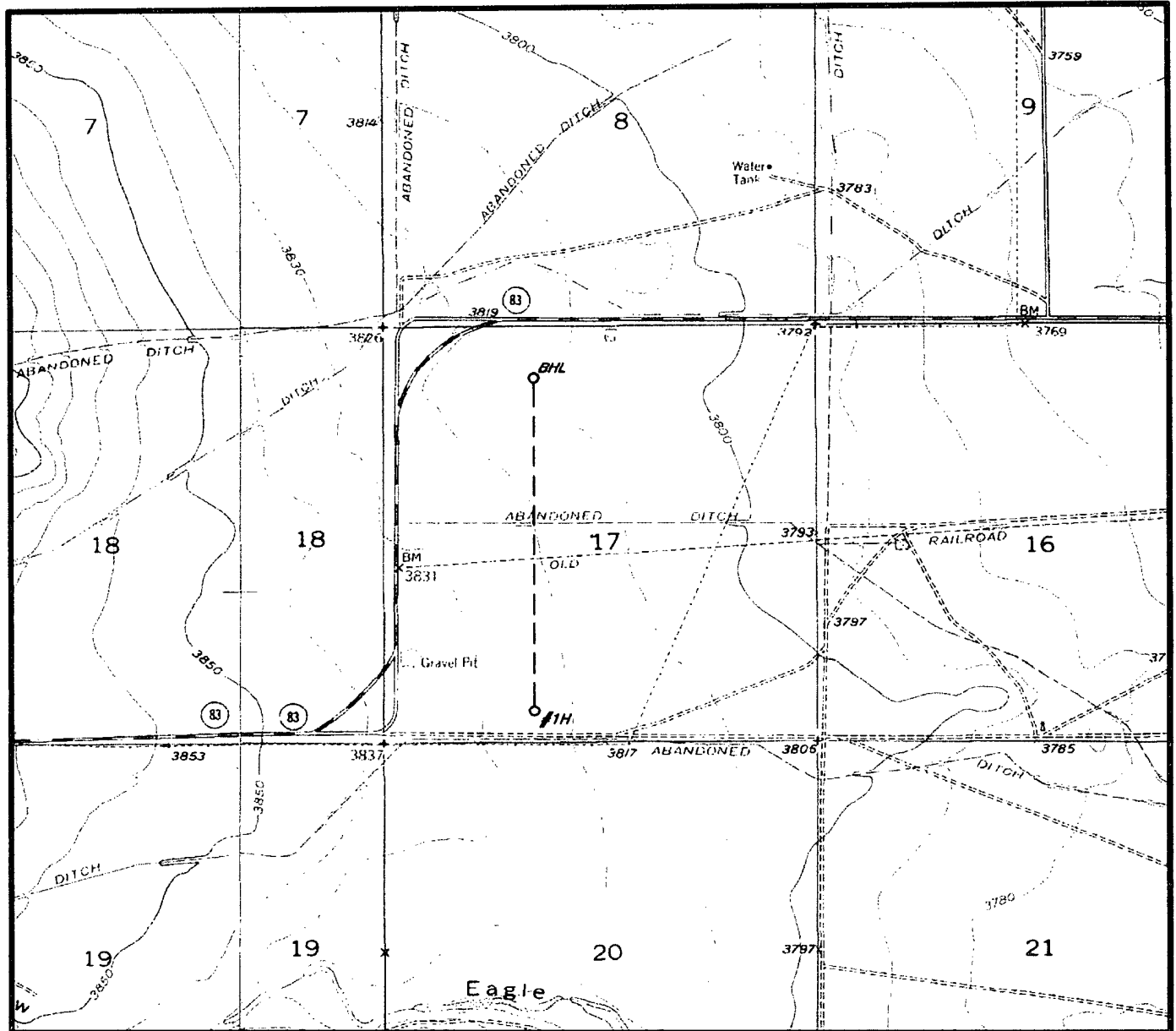
Review this plat and notify us immediately of any possible discrepancy.

1307 N. HOBART
 PAMPA, TX. 79065
 (800) 658-6382

6709 N. CLASSEN BLVD.
 OKLAHOMA CITY, OK. 73116
 (800) 654-3219

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

LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000'

CONTOUR INTERVAL 10'

SECTION 17 TWP 17-S RGE 24-E

SURVEY NEW MEXICO PRINCIPAL MERIDIAN

COUNTY EDDY STATE NM

DESCRIPTION 400' FSL & 1880' FWL

ELEVATION 3825'

OPERATOR DAVID H. ARRINGTON OIL & GAS

LEASE PASCHAL LAMB #1H

U.S.G.S. TOPOGRAPHIC MAP

HOPE NE, NEW MEXICO

SCALED LAT. LAT.: N 32.8291503

LONG. LONG.: W 104.6132095



TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

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

(APD attachment)
New Mexico Office of the State Engineer

Paschal Lamb #1H

POD Reports and Downloads

Arrington

Township: **17S** Range: **24E** Sections: **8,16,17,18,9,20,21**NAD27 X: Y: Zone: Search Radius: County: 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

WATERS Menu

Help

WATER COLUMN REPORT 03/13/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

Water (in feet)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Depth	Depth
RA 09566	17S	24E	08	3						547	475		
72													
RA 09421	17S	24E	08	4	1	3				518	50		
468													
RA 09345	17S	24E	09	2	1	1				550	412		
138													
RA 09250	17S	24E	09	2	3	1				600	505	95	

Record Count: 4



Byran,

My comments were incorrect on
the on-line submittal - deepest
offsetting section well(s) depth is
600' as above.

Thank you,
Ann Lutchio
Agent

March 13, 2006

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220 

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

RE: **David H. Arrington Oil & Gas, Inc.**, Paschal Lamb, Well #1H; Cottonwood Creek; Wolfcamp, Sec 17, T17S, R24E, Eddy County, NM

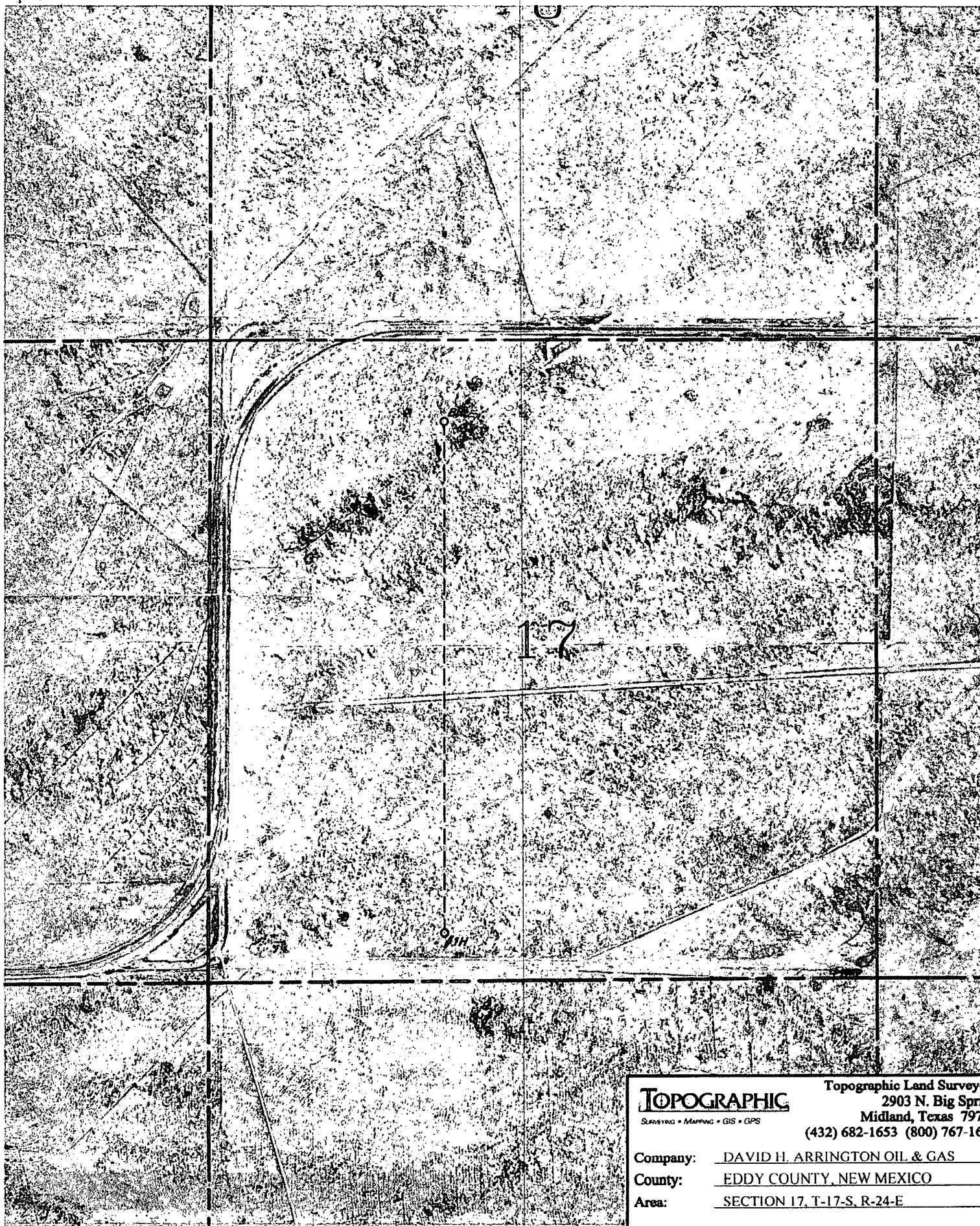
It is not anticipated that we will encounter any H₂S during the drilling or completion of the above referenced well. The closest dwelling is outside of a 1 mile radius to the best of our knowledge.

We are respectfully requesting an exemption from H₂S requirements as per NMOCD Rule 118. The anticipated TVD is 4620', the MD is 8660' for this proposed horizontal well.

Thank you,



Ann E. Ritchie, Regulatory Agent
David H. Arrington Oil & Gas, Inc.
c/o P.O. Box 953
Midland, TX 79702
432 684-6381/682-1458-fax
ann.ritchie@wtor.net



TOPOGRAPHIC
SURVEYING • MAPPING • GIS • GPS

Topographic Land Survey
2903 N. Big Springs
Midland, Texas 797
(432) 682-1653 (800) 767-16

Company: DAVID H. ARRINGTON OIL & GAS
County: EDDY COUNTY, NEW MEXICO
Area: SECTION 17, T-17-S, R-24-E

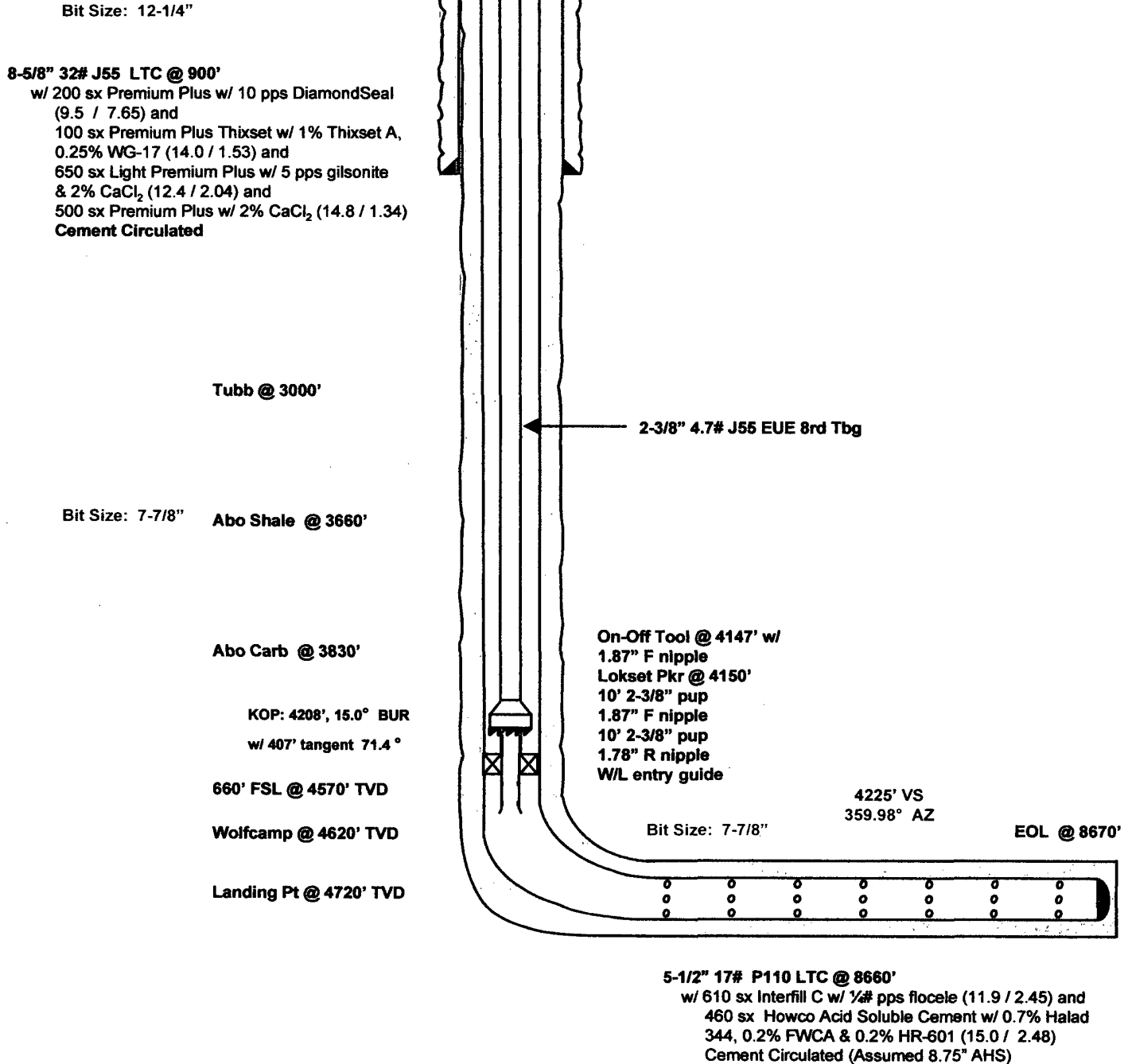
**Paschal Lamb 1H
Cottonwood Creek Field
Eddy County, New Mexico**

<u>Surface</u>	<u>Lateral Terminus</u>
400' FSL	660' FNL
1880' FWL	1880' FWL
S-17	
T17S, R24E	

Proposed Wellbore

API: 30-015-

**KB: 3844'
GL: 3825'**



David H. Arrington Oil & Gas Inc.
 Paschal Lamb 1H
 SHL - 400' FSL & 1880' FWL
 Point of Entry - 660' FSL & 1880' FWL
 BHL - 660' FNL & 1880' FWL
 S17, T17S, R24E
 Eddy County, NM

1. Ground elevation above sea level: 3825'
2. Proposed drilling depth: 8670' TMD
3. Estimated tops of geological markers:

Tubb	3000'
Abo Shale	3660'
Abo Carbonate	3830'
Wolfcamp	4620'

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' - 900'	8-5/8"	32#	LTC	J55	Surf
7-7/8"	900' - 8670'	5-1/2"	17#	LTC	P110	Surf

Drill 7-7/8" vertical hole to ~4200' and begin 15° BUR. Build angle to 71.4° and hold angle for 400'. Build to 90° and land curve @ ~ 4720' TVD. Drill ahead to a total measured depth of ~ 8670'. 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	900'	200	Lead-1: Premium Premium Plus w/ 10 pps DiamondSeal
		100	Lead-2: Premium Plus Thixset w/ 1% Thixset A & 0.25% WG-17
		650	Lead-3: Light Premium Plus w/ 5 pps gilsonite & 2% CaCl ₂
		500	Tail: Premium Plus w/ 2% CaCl ₂
5-1/2" Production	8670'	610	Lead: Interfill C w/ ¼ pps Flocele
		460	Tail: Howco Acid Soluble Cement w/ 0.7% Halad 344, 0.2% FWCA & 0.2% HR-601

Both casing strings will be cemented to surface.

7. Pressure Control Equipment: After setting 8-5/8" casing and installing 5000 psi casing head, NU 11" 5000 psi double ram BOP and 5000 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' - 900'	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.
900' - 8670'	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 ~ 3,400' add brine to mud. Mud up at ~4,400' 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 900'. Run 8-5/8" and cement to surface.

Drill 7-7/8" production hole to ~4200' and build curve w/ 15°/100' BUR to 71.4° inclination and hold angle for 400'. Build to 90° and land curve @ ~ 4720' TVD. Drill ahead to a total measured depth of ~ 8670'. Run 5-1/2" production string to TD and cement to surface.

Kick-off @ ~4200' will cause point of entry into the Wolfcamp to be at least 660' FSL.

SURVEY CALCULATION PROGRAM

OPERATOR:	David H. Arrington Oil & Gas	Supervisors:	
WELL:	Paschal Lamb 1H		
LOCATION:	Eddy County, NM	Curve BUR	15.00
JOB NUMBER:			
COMMENTS:			
Preliminary Well Plan		MAG DEC. (-/+)	
		GRID CORR. (-/+)	
		TOTAL CORR. (-/+)	

DATE: 3/13/06

TIME:

MINIMUM CURVATURE CALCULATIONS(SPE-3362)							PROPOSED DIRECTION	359.98	TARGET TRACKING TO CENTER	
SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)
TIE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1	4208.00	0.00	359.98	4208.00	0.00	0.00	0.00	0.00	512.0	0.0
2	4258.00	7.50	359.98	4257.86	3.27	3.27	0.00	15.00	462.1	0.0
3	4308.00	15.00	359.98	4306.86	13.02	13.02	0.00	15.00	413.1	0.0
4	4358.00	22.50	359.98	4354.17	29.08	29.08	-0.01	15.00	365.8	0.0
5	4408.00	30.00	359.98	4398.99	51.17	51.17	-0.02	15.00	321.0	0.0
6	4458.00	37.50	359.98	4440.53	78.93	78.93	-0.03	15.00	279.5	0.0
7	4508.00	45.00	359.98	4478.09	111.88	111.88	-0.04	15.00	241.9	0.0
8	4558.00	52.50	359.98	4511.04	149.44	149.44	-0.05	15.00	209.0	0.0
9	4608.00	60.00	359.98	4538.80	190.99	190.99	-0.07	15.00	181.2	0.0
10	4658.00	67.50	359.98	4560.90	235.80	235.80	-0.08	15.00	159.1	0.0
11	4683.65	71.38	359.98	4569.97	260.00	260.00	-0.09	15.00	150.0	0.0
12	5091.00	71.38	359.98	4699.99	645.83	645.83	-0.23	0.00	20.0	0.0
13	5141.00	78.88	359.98	4712.81	694.12	694.12	-0.24	15.00	7.2	0.0
14	5191.00	86.38	359.98	4719.22	743.67	743.67	-0.26	15.00	0.8	0.0
15	5215.15	90.00	359.98	4719.99	767.80	767.80	-0.27	15.00	0.0	0.0
16	8672.65	90.00	359.98	4719.99	4225.30	4225.30	-1.47	0.00	0.0	0.0

New Mexico Office of the State Engineer

POD Reports and Downloads

(APD attachment)
 Paschal Lamb #1H Arrington

 Township: Range: Sections:

 NAD27 X: Y: Zone: Search Radius:

 County: Basin: Number: Suffix:

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

POD / Surface Data Report Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 03/13/2006

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

Water (in feet)

 POD Number
 Column

Tws

Rng

Sec

q

q

q

Zone

X

Y

Depth

Depth

Well

Water

RA 09566

17S

24E

08

3

547

475

72

RA 09421

17S

24E

08

4

1

3

518

50

468

RA 09345

17S

24E

09

2

1

1

550

412

138

RA 09250

17S

24E

09

2

3

1

600

505

95

Record Count: 4



Byran,

My comments were incorrect on
 the on-line submitted - deepest
 offsetting section wells) depth is
 600' as above.

Thank you,
 Ann Latchie
 Agent