

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, 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-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Arena Resources, Inc. 4920 S. Lewis, Suite 107, Tulsa, OK 74105		² OGRID Number 220420
		³ API Number 30- 025-24338
⁴ Property Code 300385	⁵ Property Name East Hobbs San Andres Unit	⁶ Well No. (formerly Viersen #1-Y) 054
⁹ Proposed Pool 1 E. Hobbs (San Andres)		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no. J	Section 30	Township 18S	Range 39E	Lot Idn	Feet from the 1955	North/South line South	Feet from the 1930	East/West line East	County Lea
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⁸ Proposed 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
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Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation GR-3606 RKB-3617
¹⁶ Multiple No	¹⁷ Proposed Depth 4750	¹⁸ Formation San Andres	¹⁹ Contractor To Be Selected	²⁰ Spud Date 12/10/04
Depth to Groundwater 50		Distance from nearest fresh water well 1300		Distance from nearest surface water 3500
Pit: Liner: Synthetic <input type="checkbox"/> _____mils thick Clay <input type="checkbox"/> Pit Volume: _____bbls Drilling Method: _____ Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17	13 3/8 set	55	344	375	Surf-Circ
11	9 5/8 set	36	3150	150	849
7 7/8	5 1/2	15.50	4750	920	Surf.

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. Install blowout preventer, rig up pump, pits, equipment.
2. Run bit, drill collars, 2 7/8 tubing and drill out cement plugs with 10# brine at ground level inside 13 3/8 casing, drill out cement plug from 749' to top of 9 5/8 casing stub at 849', clean out to top of 9 5/8.
3. Drill out inside 9 5/8, drill cement plug at 3100-3200.
4. Wash down to 4750'.
5. Run 5 1/2 casing to 4750 and cement.
6. Complete San Andres P2-P3-P4 zones, stimulate, produce.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed name: Phillip W. Terry

Title: Petroleum Engineering

E-mail Address: arenaresourcesok@aol.com

Date: 11/30/04

Phone: 918-747-6060

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

Title:

Dist Eng.

Approval Date:

12/2/04

Expiration Date:

12/2/05

Conditions of Approval Attached ☐

*Need new location plot
C102 before well can
be produced*

CURRENT WELLBORE

DONALD STEVENS

VIERSEN 1-Y

"5" SEC. 30-185-39E

1955 FSL-1930 FSL

K.B. 3617

G.L. 3626

ARENA RESOURCES

EAST ABBEY UNIT

(NORTHWEST OF
LANEY A #1)

OPRD
12/30/12

SURF. PLUG - 10 SX.

WT 11/22/14

13 3/8"
55#
375 SX.
CIRC

344'

CEM. PLUG 749-849

849'-95 5/8" CLOT 2/10/13

95 5/8"
36#
150 SX

CEM. PLUG 3100-3200'

GLORIA PLUG 5800-5900

PELU PLUG 8820-8920

TELEVISION PLUG 9950-10050

TD 10,240

$$\text{CEMENT VOL} = (4750 - 3150) = 1600' - 5\frac{1}{2} \times 7\frac{7}{8}'' = 0.1733 \text{ FT}^3/\text{FT} = 279 \text{ FT}^3 + 50\% = 415 \text{ FT}^3$$

$$(3150 - 849) = 2301' - 5\frac{1}{2} \times 9\frac{5}{8}'' = 0.2648 \text{ FT}^3/\text{FT} = 609 \text{ NO EXCESS} = 609$$

$$(849 - 344) = 505' - 5\frac{1}{2} \times 11'' = 0.4956 \text{ FT}^3/\text{FT} = 250 + 50\% = 375$$

$$(344' - \text{SURF}) = 344' - 5\frac{1}{2} \times 13\frac{3}{8}'' = 0.3627 \text{ FT}^3/\text{FT} = 125 \text{ NO EXCESS} = 125$$

$$200 \text{ SX PREM} = 265 \text{ FT}^3 + 655 \text{ SX LITE} = 1264 \text{ FT}^3 = 1529 \text{ FT}^3$$

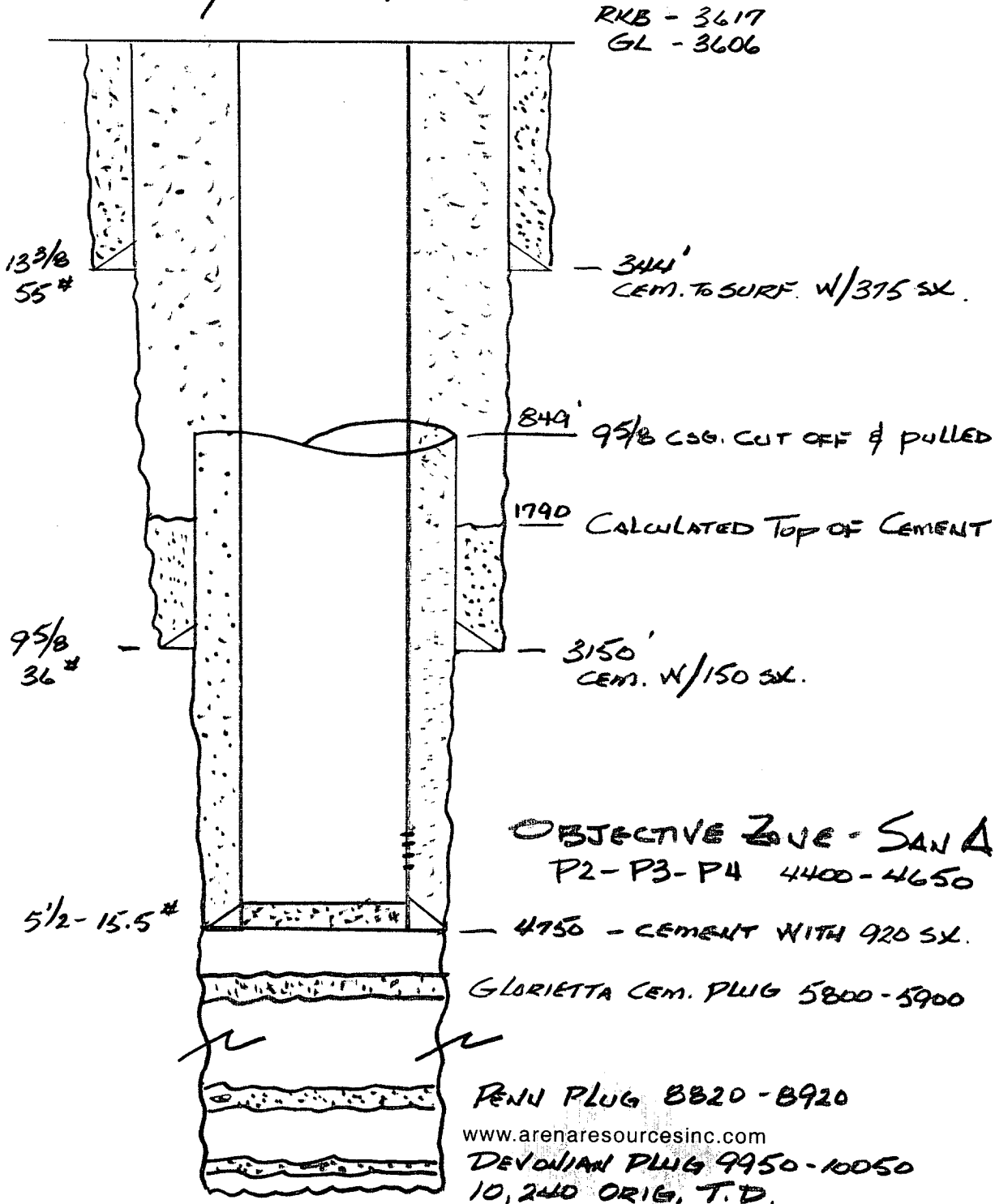
1524 FT³



4920 S. Lewis, Suite 107 Tulsa, Oklahoma 74105
Phone (918) 747-6060 FAX (918) 747-7620

EAST HOBBS SAN ANDRES UNIT #054
(FORMERLY DONALD STEVENS VIERSEN #1)
UNIT LETTER "J" SEC. 30 - 18S - 39E
1955 FSL - 1930 FEL LEA CO., U/M

PROPOSED WELLBORE



WT 11/30/04

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

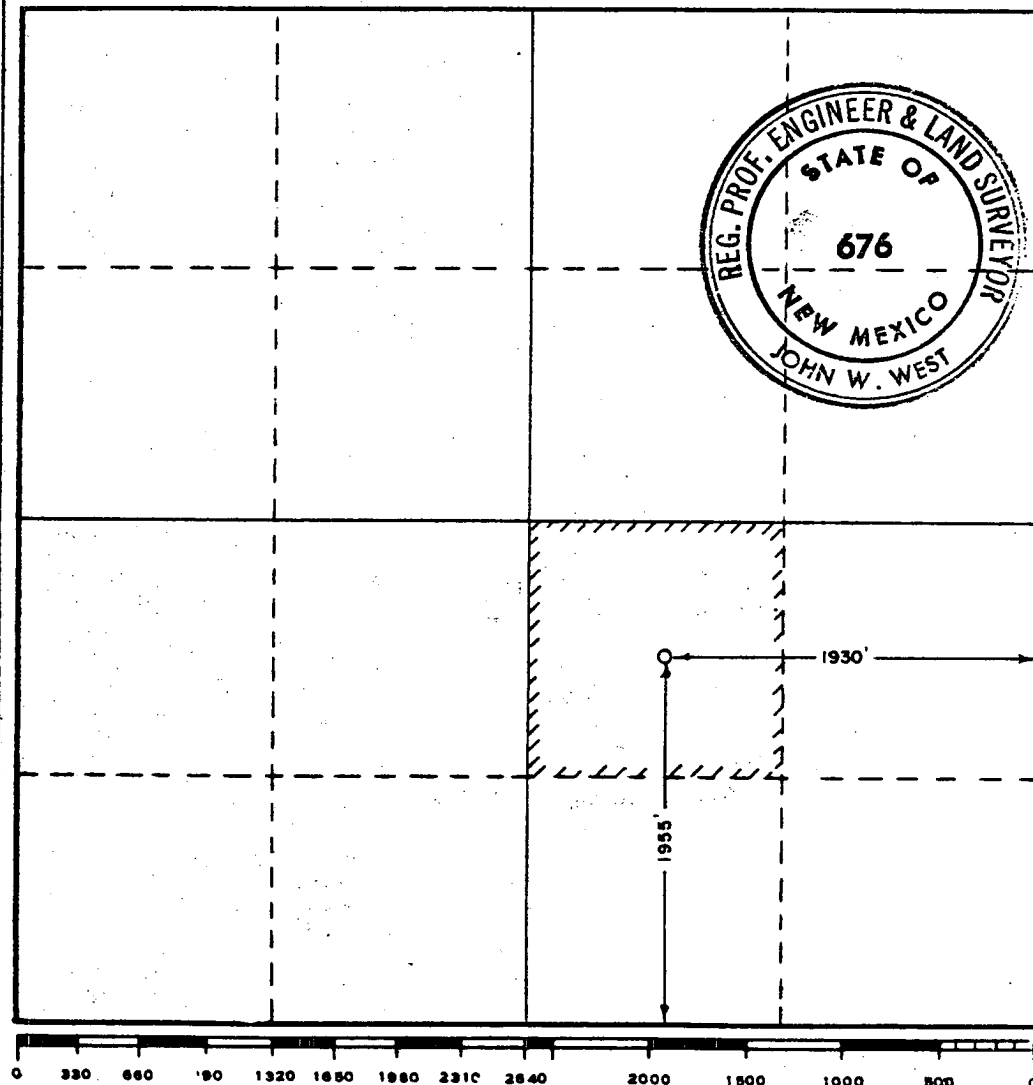
All distances must be from the outer boundaries of the Section.

Operator DONALD G. STEVENS		Lease IX VIERSON		Well No. 1	
Unit Letter J	Section 30	Township 18 SOUTH	Range 39 EAST	County LEA	
Actual Footage Location of Well: 1955 feet from the SOUTH line and 1930 feet from the EAST line					
Ground Level Elev. 3606	Producing Formation Devonian		Pool Wildcat	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name **Donald G. Stevens**
Position **Operator**
Company _____

Date **Dec. 29, 1972**

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 knowledge and belief.

Date Surveyed
DECEMBER 28, 1972

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **676**