

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

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

Form C-101

March 4, 2004

RECEIVED Submit to appropriate District Office
 State Lease - 6 Copies
 Fee Lease - 5 Copies

JUL 29 2004

OCD-ARTESIA ☐ AMENDED REPORT

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

¹ Operator Name and Address Pure Resources, L. P. 500 W. Illinois Midland, Texas 79701		² OGRID Number 150628
		³ API Number 30 - 015 - 33573
³ Property Code	⁵ Property Name Esperanza "13"	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	22-S	26-E		612	South	2,037	East	Eddy

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
M	13	22-S	26-E		1310	South	660	West	Eddy

⁹ Proposed Pool 1 ✓ Carlsbad; Morrow, South (Pro Gas) (73960)	¹⁰ Proposed Pool 2
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¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3,152'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,631' MD 11,800' TVD (@ BHL)	¹⁸ Formation Morrow	¹⁹ Contractor Nabors	²⁰ Spud Date When Approved

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	NA	40'	Redi-mix	Surface
17-1/2"	13-3/8"	48# H-40	400'	440 sx	Surface
12-1/4"	9-5/8"	36# J-55	1,800'	580 sx	Surface
8-3/4"	7"	23# P110HC	9,000' MD 8,540' TVD	880 sx	1,700'
6-1/8"	4-1/2" Liner	11.6# P110HC	8,800' MD 11,800' MD	315 sx	Liner fully cmt'd.

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. If a pit or below-grade tank is being used in the program, complete the reverse side of this form. Use additional sheets if necessary.

Pure Resources, L. P. is proposing to drill a Directional well to the Carlsbad; Morrow, South (Pro Gas) Pool (73960). The 7" intermediate casing depth may vary - intent is to set at the top of Wolfcamp zone as determined by mud logging. The pit contents will be handled according to NMMOCD guidelines.. SEE ATTACHED—Casing/Cement and Mud Program sheet, BOP Schematic (13-5/8" 10K Stack), site layout plat, Weatherford directional drill plan, and additional maps and plats.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Alan W. Bohling</i> Printed name: Alan W. Bohling Title: Regulatory Agent E-mail Address: abohling@pureresources.com Date: July 27, 2004	OIL CONSERVATION DIVISION	
	Approved by: TIM W. GUM	
	Title: DISTRICT II SUPERVISOR	
	Approval Date: AUG 24 2004	Expiration: AUG 24 2005
	Conditions of Approval: Attached ☐	

NOTIFY OCD OF SPUD & TIME TO
 WITNESS CEMENTING OF
 SURFACE & INTERMEDIATE
 CASING

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Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Pure Resources, L. P. Telephone: (432) 498-8662 e-mail address: abohling@pureresources.com
Address: 500 W. Illinois Midland, Texas 79701
Facility or well name: Esperanza "13" No. 1 API #: _____ U/L or Qtr/Qtr_O _____ Sec 13 T 22-S R 26-E
County: Eddy Latitude 32 23' 12.04" Longitude 104 14' 37.13" Surface Owner Federal ☐ State ☐ Private ☐ Indian ☒

Pit Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Volume <u>2000</u> bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <u>58' Avg.</u>	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) <u>10</u>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) <u>Yes-898'</u> <u>to nearest water source well.</u>	Yes No	(20 points) <u>20</u> (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) <u>Dark Canyon Draw ~ 300' East.</u>	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) <u>10</u> (0 points)
Ranking Score (Total Points)		<u>40</u>

If this is a pit closure:

- (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks.
- (2) Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility _____.
- (3) Attach a general description of remedial action taken including remediation start date and end date.
- (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results.
- (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been constructed or closed according to NMOCD guidelines.

Date: 7/27/2004

Printed Name/Title Alan W. Bohling

Signature Alan W. Bohling

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: AUG 6 2004

Date: _____

Printed Name/Title _____

Signature [Signature]

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name ESPERANZA "13"		Well Number 1
OGRID No. 150628	Operator Name PURE RESOURCES, L.P.		Elevation 3152'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	22-S	26-E		612'	SOUTH	2037'	EAST	EDDY

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	13	22-S	26-E		1310'	SOUTH	660'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURF. LOC. Y=504399.4 N X=527684.6 E LAT.=32°23'12.04" N LONG.=104°14'37.13" W BH. LOCATION Y=505158.5 N X=524926.7 E BOTTOM HOLE 660' 1310' GR. AZ.=285°23' 2860.5' SURF. LOC. 2037' 612' 5466.5'	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Alan W. Bohling</i> Signature Alan W. Bohling Printed Name Regulatory Agent Title July 27, 2004 Date
	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. APRIL 30, 2004 Date Surveyed REV. 07/16/04 JR Signature & Seal of Professional Surveyor Professional Surveyor GARY E. EIDSON 04.11.0493 Certificate No. GARY EIDSON 12841

DISTRICT I
P.O. Box 1880, Hobbs, NM 88241-1880

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0710

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name ESPERANZA "13"	Well Number 1
OGRID No. 150628	Operator Name PURE RESOURCES, L.P.	Elevation 3152'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	22-S	26-E		612'	SOUTH	2037'	EAST	EDDY

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	13	22-S	26-E		1310'	SOUTH	660'	WEST	EDDY
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Project Area 320 acres GEODETIC COORDINATES NAD 27 NME SURF. LOC. Y=504399.4 N X=527684.6 E LAT.=32°23'12.04" N LONG.=104°14'37.13" W BH. LOCATION Y=505158.5 N X=524926.7 E Standard Producing Area Non-Standard Producing Area BOTTOM HOLE 660' 1310' 2037' 5466.5' 5418.1' SURF. LOC.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Alan W. Bohling</i> Signature Alan W. Bohling Printed Name Regulatory Agent Title July 27, 2004 Date 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. APRIL 30, 2004 Date Surveyed Signature & Seal Professional Surveyor GARY E. ELLISON 04.11.04937 Certificate No. GARY E. ELLISON 12841
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Casing/Cement and Mud Program Sheet

Esperanza "13" #1

API No. _____

612' FSL & 2,037' FEL

UL O, Sec. 13, T-22-S, R-26-E

Eddy County, New Mexico

Proposed Casing and Cement Program:

Hole Size	Casing Size	Wt #/ft	Grade	Connect	Setting Depth	Cement Volume	Estimated TOC
25"	20"	N/A	N/A	N/A	40'	Redi-mix	Surface
17-1/2"	13-3/8"	48	H40	STC	400'	440 sx	Surface
12-1/4"	9-5/8"	36	J55	STC	1,800'	580 sx	Surface
8-3/4"	7"	23	P110HC	LTC	9,000' MD 8,540' TVD	880 sx	1,700'
6-1/8"	4-1/2" Liner	11.6	P110HC	LTC	8,800' MD 11,800' MD	315 sx	Linner will be fully cemented with cmt. across lap into 7" Csg.

Note: 7" Intermediat Casing depth may be adjusted per drilling results-intent is to set at the top of the Wolfcamp zone, which will be determined by mud logging as drilling progresses.

Propose Mud Program

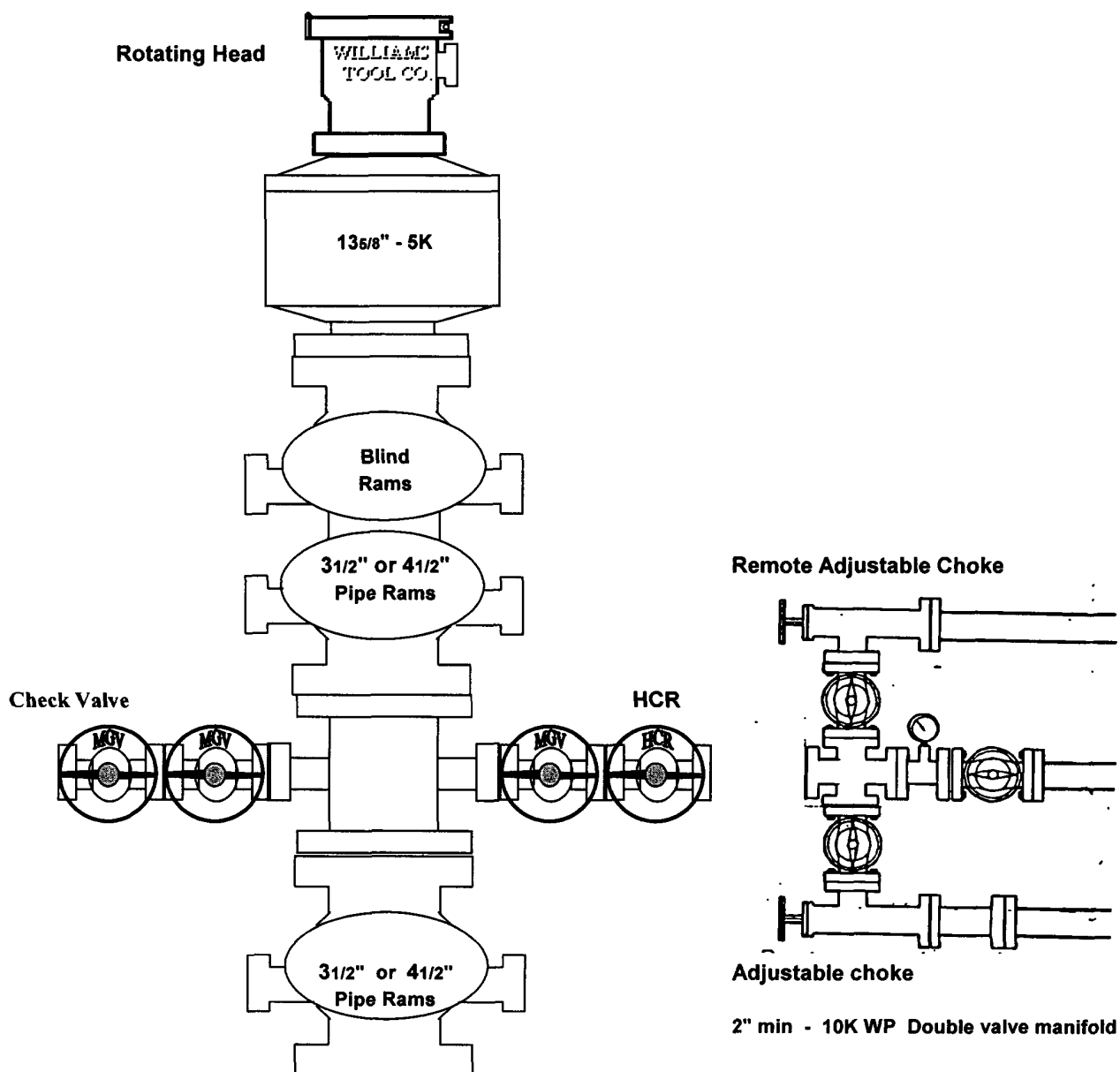
Interval	Type	Weight
0' - 400'	FW / Spud Mud	8.4 - 9.0
400' - 1,800'	FW w/ LCM as needed	8.4 - 9.0
1,800' - 9,000' MD	FW w/ LCM as needed	8.4 - 9.2
9,000' MD - 11,800' MD	Brine 35+ vis, FL 6-8 across zones of interest	9.8 - 11.0

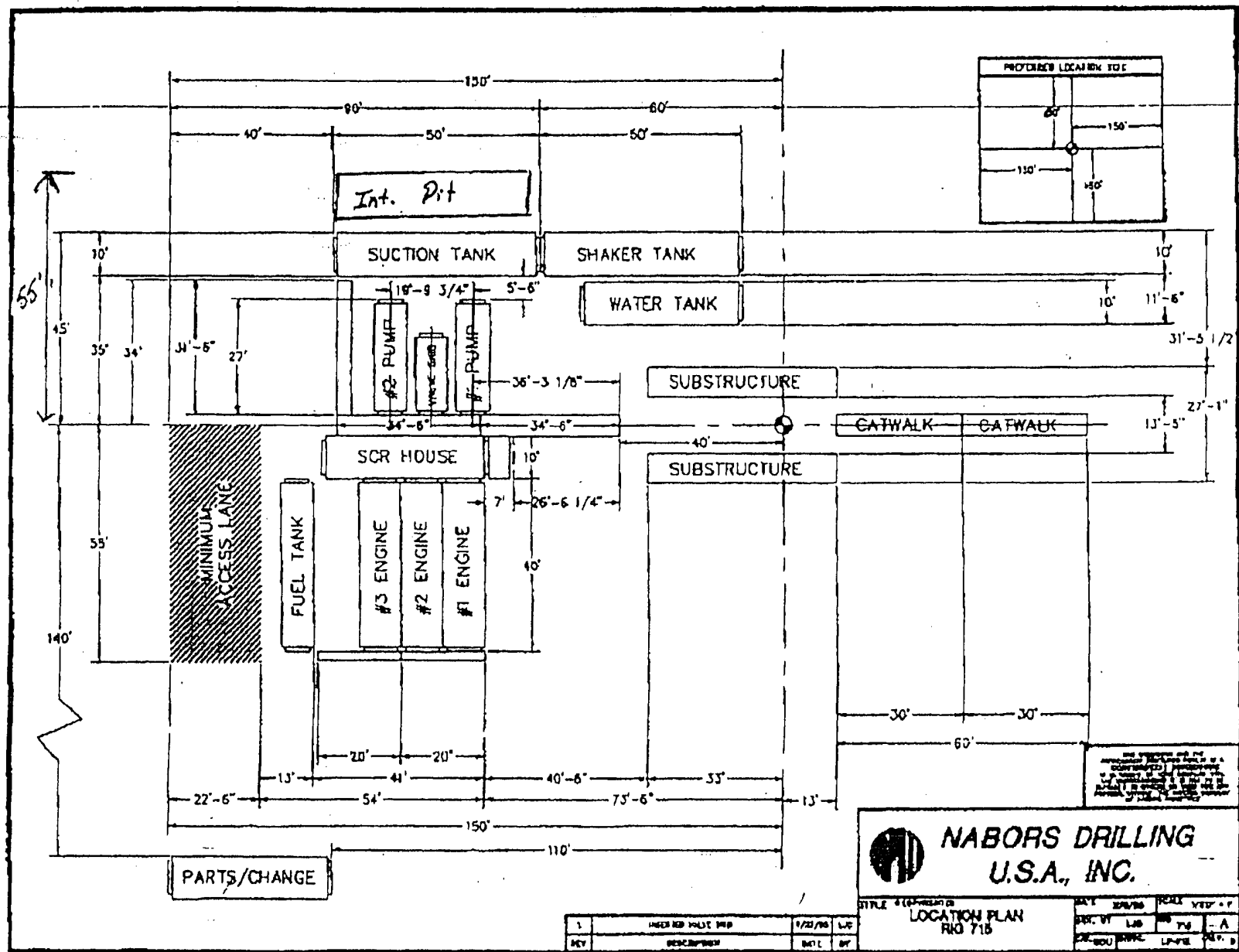
BOPE Schematic

Esperanza "13" #1

13 5/8" - 10K PSI

612' FSL and 2,037' FEL
Section 13 - T22S - R26E
Eddy County, New Mexico





**NABORS DRILLING
U.S.A., INC.**

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR VALUE	7/22/78	LJC

DATE	7/22/78	SCALE	AS SHOWN
DRG. BY	LJC	CHKD BY	A
DRG. NO.	715	DATE	7/22/78

**LOCATION PLAN
RIO 715**

Pure Resources, L. P.
Esperanza "13" Well No. 1
612' FSL & 2,037' FEL
UL O, Sec. 13, T-22-S, R-26-E
Eddy County, New Mexico

H2S and Safety Statement

Although Pure Resources, L. P. is not aware of any known presence of H2S in the area of this well and does not anticipate encountering any H2S during the drilling of this well, we are taking precautions to ensure the safety of all workers and personnel on this location and it's immediately surrounding area.

Attached to this APD is a copy of Pure Resources, L. P. "Contingency Plan - Drilling Operations", standard to our drilling operations and operating policies and relevant to this well.

Company: Pure Resources Field: Carlsbad South Field Site: Esparanza 13 Well: #1 Wellpath: 1	Date: 5/28/2004 Time: 09:58:04 Page: 1 Co-ordinate(N/E) Reference: Well: #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: User (0.00N,0.00E,285.56Azi) Plan: Plan #1
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Field: Carlsbad South Field	
Eddy County, NM	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2000

Site: Esparanza 13
Sec 13, T22S, R26E

Site Position:	Northing: 504399.40 ft	Latitude: 32 23 12.036 N
From: Map	Easting: 527684.60 ft	Longitude: 104 14 37.134 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 0.00 ft		Grid Convergence: 0.05 deg

Well: #1	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 23 12.036 N
+E/-W 0.00 ft	Longitude: 104 14 37.134 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 4/6/2004	Above System Datum: Mean Sea Level
Field Strength: 0 nT	Declination: 0.00 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 0.00 deg
ft	+N/-S ft
0.00	+E/-W ft
	Direction deg
	285.56

Plan: Plan #1	Date Composed: 4/6/2004
Principal: No	Version: 1
	Tied-to: User Defined

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
4900.00	0.00	285.58	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	285.58	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6017.06	30.51	285.58	5969.67	71.02	-254.76	3.00	3.00	0.00	285.58	
10614.34	30.51	285.58	9930.33	697.78	-2503.14	0.00	0.00	0.00	0.00	
11631.40	0.00	285.58	10900.00	768.80	-2757.90	3.00	-3.00	0.00	180.00	Displacement Target
12431.40	0.00	285.58	11700.00	768.80	-2757.90	0.00	0.00	0.00	285.58	

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4900.00	0.00	285.58	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	285.58	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	285.58

Section 2 : Start Build 3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5100.00	3.00	285.58	5099.95	0.70	-2.52	2.62	3.00	3.00	0.00	0.00
5200.00	6.00	285.58	5199.63	2.81	-10.08	10.46	3.00	3.00	0.00	0.00
5300.00	9.00	285.58	5298.77	6.31	-22.65	23.51	3.00	3.00	0.00	0.00
5400.00	12.00	285.58	5397.08	11.21	-40.20	41.74	3.00	3.00	0.00	0.00
5500.00	15.00	285.58	5494.31	17.47	-62.69	65.08	3.00	3.00	0.00	0.00
5600.00	18.00	285.58	5590.18	25.10	-90.04	93.48	3.00	3.00	0.00	0.00
5700.00	21.00	285.58	5684.43	34.06	-122.19	126.85	3.00	3.00	0.00	0.00
5800.00	24.00	285.58	5776.81	44.34	-159.05	165.12	3.00	3.00	0.00	0.00
5900.00	27.00	285.58	5867.06	55.90	-200.52	208.16	3.00	3.00	0.00	0.00
6000.00	30.00	285.58	5954.93	68.71	-246.48	255.87	3.00	3.00	0.00	0.00
6017.06	30.51	285.58	5969.67	71.02	-254.76	264.47	3.00	3.00	0.00	0.00

Company: Pure Resources
 Field: Carlsbad South Field
 Site: Esparanza 13
 Well: #1
 Wellpath: 1

Date: 5/28/2004 Time: 09:58:04 Page: 2
 Co-ordinate(N/E) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: User (0.00N,0.00E,285.56Azi)
 Plan: Plan #1

Section 2 : Start Build 3.00

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO
----	------	------	-----	-------	-------	----	-----	-------	------	-----

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
6100.00	30.51	285.58	6041.12	82.32	-295.32	306.58	0.00	0.00	0.00	180.00
6200.00	30.51	285.58	6127.27	95.96	-344.23	357.35	0.00	0.00	0.00	180.00
6300.00	30.51	285.58	6213.43	109.59	-393.13	408.12	0.00	0.00	0.00	180.00
6400.00	30.51	285.58	6299.58	123.22	-442.04	458.89	0.00	0.00	0.00	180.00
6500.00	30.51	285.58	6385.73	136.86	-490.95	509.67	0.00	0.00	0.00	180.00
6600.00	30.51	285.58	6471.88	150.49	-539.85	560.44	0.00	0.00	0.00	180.00
6700.00	30.51	285.58	6558.04	164.12	-588.76	611.21	0.00	0.00	0.00	180.00
6800.00	30.51	285.58	6644.19	177.76	-637.67	661.98	0.00	0.00	0.00	180.00
6900.00	30.51	285.58	6730.34	191.39	-686.57	712.75	0.00	0.00	0.00	180.00
7000.00	30.51	285.58	6816.49	205.02	-735.48	763.52	0.00	0.00	0.00	180.00
7100.00	30.51	285.58	6902.64	218.66	-784.39	814.29	0.00	0.00	0.00	180.00
7200.00	30.51	285.58	6988.80	232.29	-833.30	865.07	0.00	0.00	0.00	180.00
7300.00	30.51	285.58	7074.95	245.93	-882.20	915.84	0.00	0.00	0.00	180.00
7400.00	30.51	285.58	7161.10	259.56	-931.11	966.61	0.00	0.00	0.00	180.00
7500.00	30.51	285.58	7247.25	273.19	-980.02	1017.38	0.00	0.00	0.00	180.00
7600.00	30.51	285.58	7333.41	286.83	-1028.92	1068.15	0.00	0.00	0.00	180.00
7700.00	30.51	285.58	7419.56	300.46	-1077.83	1118.92	0.00	0.00	0.00	180.00
7800.00	30.51	285.58	7505.71	314.09	-1126.74	1169.70	0.00	0.00	0.00	180.00
7900.00	30.51	285.58	7591.86	327.73	-1175.64	1220.47	0.00	0.00	0.00	180.00
8000.00	30.51	285.58	7678.02	341.36	-1224.55	1271.24	0.00	0.00	0.00	180.00
8100.00	30.51	285.58	7764.17	354.99	-1273.46	1322.01	0.00	0.00	0.00	180.00
8200.00	30.51	285.58	7850.32	368.63	-1322.36	1372.78	0.00	0.00	0.00	180.00
8300.00	30.51	285.58	7936.47	382.26	-1371.27	1423.55	0.00	0.00	0.00	180.00
8400.00	30.51	285.58	8022.63	395.89	-1420.18	1474.33	0.00	0.00	0.00	180.00
8500.00	30.51	285.58	8108.78	409.53	-1469.09	1525.10	0.00	0.00	0.00	180.00
8600.00	30.51	285.58	8194.93	423.16	-1517.99	1575.87	0.00	0.00	0.00	180.00
8700.00	30.51	285.58	8281.08	436.79	-1566.90	1626.64	0.00	0.00	0.00	180.00
8800.00	30.51	285.58	8367.24	450.43	-1615.81	1677.41	0.00	0.00	0.00	180.00
8900.00	30.51	285.58	8453.39	464.06	-1664.71	1728.18	0.00	0.00	0.00	180.00
9000.00	30.51	285.58	8539.54	477.69	-1713.62	1778.96	0.00	0.00	0.00	180.00
9100.00	30.51	285.58	8625.69	491.33	-1762.53	1829.73	0.00	0.00	0.00	180.00
9200.00	30.51	285.58	8711.85	504.96	-1811.43	1880.50	0.00	0.00	0.00	180.00
9300.00	30.51	285.58	8798.00	518.59	-1860.34	1931.27	0.00	0.00	0.00	180.00
9400.00	30.51	285.58	8884.15	532.23	-1909.25	1982.04	0.00	0.00	0.00	180.00
9500.00	30.51	285.58	8970.30	545.86	-1958.15	2032.81	0.00	0.00	0.00	180.00
9600.00	30.51	285.58	9056.46	559.49	-2007.06	2083.59	0.00	0.00	0.00	180.00
9700.00	30.51	285.58	9142.61	573.13	-2055.97	2134.36	0.00	0.00	0.00	180.00
9800.00	30.51	285.58	9228.76	586.76	-2104.88	2185.13	0.00	0.00	0.00	180.00
9900.00	30.51	285.58	9314.91	600.39	-2153.78	2235.90	0.00	0.00	0.00	180.00
10000.00	30.51	285.58	9401.07	614.03	-2202.69	2286.67	0.00	0.00	0.00	180.00
10100.00	30.51	285.58	9487.22	627.66	-2251.60	2337.44	0.00	0.00	0.00	180.00
10200.00	30.51	285.58	9573.37	641.29	-2300.50	2388.22	0.00	0.00	0.00	180.00
10300.00	30.51	285.58	9659.52	654.93	-2349.41	2438.99	0.00	0.00	0.00	180.00
10400.00	30.51	285.58	9745.67	668.56	-2398.32	2489.76	0.00	0.00	0.00	180.00
10500.00	30.51	285.58	9831.83	682.20	-2447.22	2540.53	0.00	0.00	0.00	180.00
10600.00	30.51	285.58	9917.98	695.83	-2496.13	2591.30	0.00	0.00	0.00	180.00
10614.34	30.51	285.58	9930.33	697.78	-2503.14	2598.58	0.00	0.00	0.00	180.00

Section 4 : Start Drop -3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
10700.00	27.94	285.58	10005.08	709.01	-2543.43	2640.40	3.00	-3.00	0.00	180.00
10800.00	24.94	285.58	10094.61	720.97	-2586.32	2684.93	3.00	-3.00	0.00	180.00
10900.00	21.94	285.58	10186.35	731.65	-2624.64	2724.71	3.00	-3.00	0.00	180.00
11000.00	18.94	285.58	10280.04	741.03	-2658.27	2759.63	3.00	-3.00	0.00	180.00
11100.00	15.94	285.58	10375.43	749.08	-2687.14	2789.60	3.00	-3.00	0.00	180.00
11200.00	12.94	285.58	10472.26	755.77	-2711.17	2814.54	3.00	-3.00	0.00	180.00

Company: Pure Resources
 Field: Carlsbad South Field
 Site: Esparanza 13
 Well: #1
 Wellpath: 1

Date: 5/28/2004 Time: 09:58:04 Page: 3
 Co-ordinate(NE) Reference: #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: User (0.00N,0.00E,285.56Azi)
 Plan: Plan #1

Section 4 : Start Drop -3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
11300.00	9.94	285.58	10570.26	761.10	-2730.27	2834.37	3.00	-3.00	0.00	180.00
11400.00	6.94	285.58	10669.17	765.04	-2744.41	2849.05	3.00	-3.00	0.00	180.00
11500.00	3.94	285.58	10768.70	767.59	-2753.55	2858.53	3.00	-3.00	0.00	180.00
11600.00	0.94	285.58	10868.60	768.73	-2757.65	2862.79	3.00	-3.00	0.00	180.00
11631.40	0.00	285.58	10900.00	768.80	-2757.90	2863.05	3.00	-3.00	0.00	-180.00

Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
11700.00	0.00	285.58	10968.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
11800.00	0.00	285.58	11068.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
11900.00	0.00	285.58	11168.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12000.00	0.00	285.58	11268.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12100.00	0.00	285.58	11368.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12200.00	0.00	285.58	11468.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12300.00	0.00	285.58	11568.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12400.00	0.00	285.58	11668.60	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58
12431.40	0.00	285.58	11700.00	768.80	-2757.90	2863.05	0.00	0.00	0.00	285.58

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
4900.00	0.00	285.58	4900.00	0.00	0.00	504399.40	527684.60	32	23	12.036 N	104	14	37.134 W
5000.00	0.00	285.58	5000.00	0.00	0.00	504399.40	527684.60	32	23	12.036 N	104	14	37.134 W
5100.00	3.00	285.58	5099.95	0.70	-2.52	504400.10	527682.08	32	23	12.043 N	104	14	37.163 W
5200.00	6.00	285.58	5199.63	2.81	-10.08	504402.21	527674.52	32	23	12.064 N	104	14	37.251 W
5300.00	9.00	285.58	5298.77	6.31	-22.65	504405.71	527661.95	32	23	12.099 N	104	14	37.398 W
5400.00	12.00	285.58	5397.08	11.21	-40.20	504410.61	527644.40	32	23	12.148 N	104	14	37.602 W
5500.00	15.00	285.58	5494.31	17.47	-62.69	504416.87	527621.91	32	23	12.210 N	104	14	37.865 W
5600.00	18.00	285.58	5590.18	25.10	-90.04	504424.50	527594.56	32	23	12.285 N	104	14	38.184 W
5700.00	21.00	285.58	5684.43	34.06	-122.19	504433.46	527562.41	32	23	12.374 N	104	14	38.558 W
5800.00	24.00	285.58	5776.81	44.34	-159.05	504443.74	527525.55	32	23	12.476 N	104	14	38.988 W
5900.00	27.00	285.58	5867.06	55.90	-200.52	504455.30	527484.08	32	23	12.591 N	104	14	39.472 W
6000.00	30.00	285.58	5954.93	68.71	-246.48	504468.11	527438.12	32	23	12.718 N	104	14	40.007 W
6017.06	30.51	285.58	5969.67	71.02	-254.76	504470.42	527429.84	32	23	12.741 N	104	14	40.104 W
6100.00	30.51	285.58	6041.12	82.32	-295.32	504481.72	527389.28	32	23	12.853 N	104	14	40.577 W
6200.00	30.51	285.58	6127.27	95.96	-344.23	504495.36	527340.37	32	23	12.989 N	104	14	41.147 W
6300.00	30.51	285.58	6213.43	109.59	-393.13	504508.99	527291.47	32	23	13.124 N	104	14	41.717 W
6400.00	30.51	285.58	6299.58	123.22	-442.04	504522.62	527242.56	32	23	13.259 N	104	14	42.288 W
6500.00	30.51	285.58	6385.73	136.86	-490.95	504536.26	527193.65	32	23	13.395 N	104	14	42.858 W
6600.00	30.51	285.58	6471.88	150.49	-539.85	504549.89	527144.75	32	23	13.530 N	104	14	43.428 W
6700.00	30.51	285.58	6558.04	164.12	-588.76	504563.52	527095.84	32	23	13.665 N	104	14	43.998 W
6800.00	30.51	285.58	6644.19	177.76	-637.67	504577.16	527046.93	32	23	13.801 N	104	14	44.569 W
6900.00	30.51	285.58	6730.34	191.39	-686.57	504590.79	526998.03	32	23	13.936 N	104	14	45.139 W
7000.00	30.51	285.58	6816.49	205.02	-735.48	504604.42	526949.12	32	23	14.071 N	104	14	45.709 W
7100.00	30.51	285.58	6902.64	218.66	-784.39	504618.06	526900.21	32	23	14.207 N	104	14	46.279 W
7200.00	30.51	285.58	6988.80	232.29	-833.30	504631.69	526851.30	32	23	14.342 N	104	14	46.850 W
7300.00	30.51	285.58	7074.95	245.93	-882.20	504645.33	526802.40	32	23	14.477 N	104	14	47.420 W
7400.00	30.51	285.58	7161.10	259.56	-931.11	504658.96	526753.49	32	23	14.612 N	104	14	47.990 W
7500.00	30.51	285.58	7247.25	273.19	-980.02	504672.59	526704.58	32	23	14.748 N	104	14	48.560 W
7600.00	30.51	285.58	7333.41	286.83	-1028.92	504686.23	526655.68	32	23	14.883 N	104	14	49.131 W
7700.00	30.51	285.58	7419.56	300.46	-1077.83	504699.86	526606.77	32	23	15.018 N	104	14	49.701 W
7800.00	30.51	285.58	7505.71	314.09	-1126.74	504713.49	526557.86	32	23	15.154 N	104	14	50.271 W
7900.00	30.51	285.58	7591.86	327.73	-1175.64	504727.13	526508.96	32	23	15.289 N	104	14	50.841 W
8000.00	30.51	285.58	7678.02	341.36	-1224.55	504740.76	526460.05	32	23	15.424 N	104	14	51.412 W

Company: Pure Resources
Field: Carlsbad South Field
Site: Esparanza 13
Well: #1
Wellpath: 1

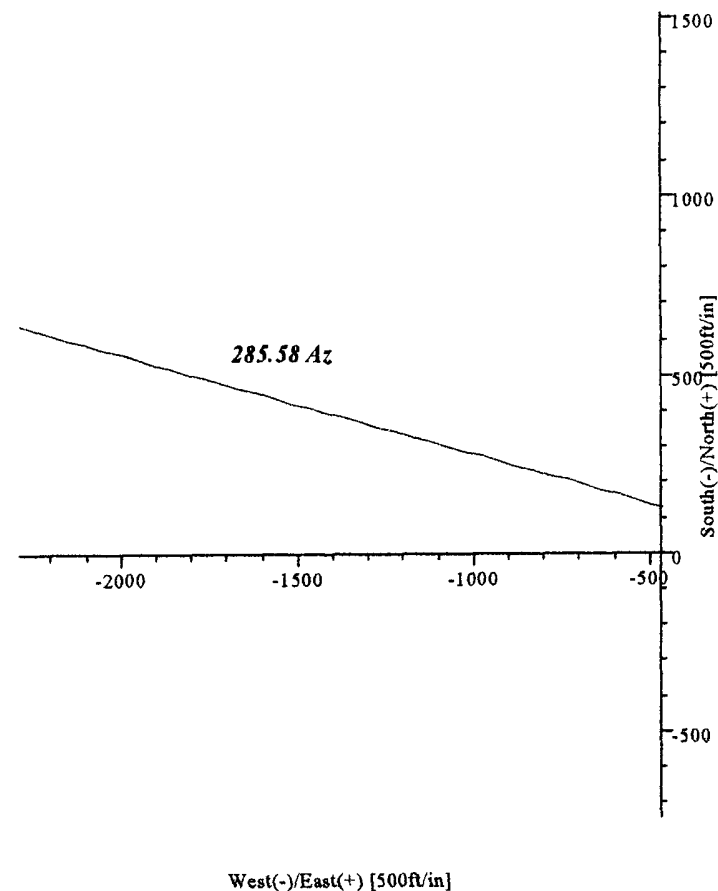
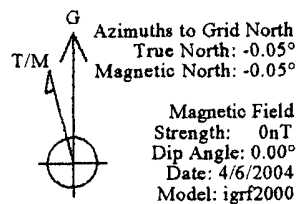
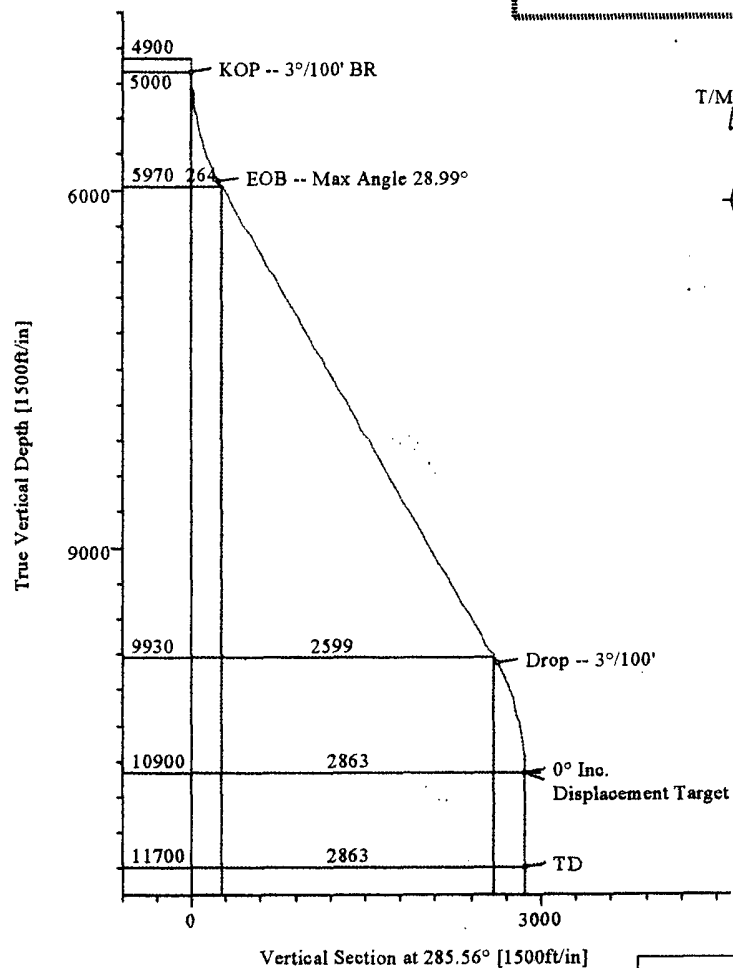
Date: 5/28/2004 Time: 09:58:04 Page: 4
Co-ordinate(N/E) Reference: Well: #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: User (0.00N,0.00E,285.56Azi)
Plan: Plan #1

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
8100.00	30.51	285.58	7764.17	354.99	-1273.46	504754.39	526411.14	32	23	15.560 N	104	14	51.982 W
8200.00	30.51	285.58	7850.32	368.63	-1322.36	504768.03	526362.24	32	23	15.695 N	104	14	52.552 W
8300.00	30.51	285.58	7936.47	382.26	-1371.27	504781.66	526313.33	32	23	15.830 N	104	14	53.122 W
8400.00	30.51	285.58	8022.63	395.89	-1420.18	504795.29	526264.42	32	23	15.966 N	104	14	53.693 W
8500.00	30.51	285.58	8108.78	409.53	-1469.09	504808.93	526215.51	32	23	16.101 N	104	14	54.263 W
8600.00	30.51	285.58	8194.93	423.16	-1517.99	504822.56	526166.61	32	23	16.236 N	104	14	54.833 W
8700.00	30.51	285.58	8281.08	436.79	-1566.90	504836.19	526117.70	32	23	16.371 N	104	14	55.403 W
8800.00	30.51	285.58	8367.24	450.43	-1615.81	504849.83	526068.79	32	23	16.507 N	104	14	55.974 W
8900.00	30.51	285.58	8453.39	464.06	-1664.71	504863.46	526019.89	32	23	16.642 N	104	14	56.544 W
9000.00	30.51	285.58	8539.54	477.69	-1713.62	504877.09	525970.98	32	23	16.777 N	104	14	57.114 W
9100.00	30.51	285.58	8625.69	491.33	-1762.53	504890.73	525922.07	32	23	16.913 N	104	14	57.684 W
9200.00	30.51	285.58	8711.85	504.96	-1811.43	504904.36	525873.17	32	23	17.048 N	104	14	58.255 W
9300.00	30.51	285.58	8798.00	518.59	-1860.34	504917.99	525824.26	32	23	17.183 N	104	14	58.825 W
9400.00	30.51	285.58	8884.15	532.23	-1909.25	504931.63	525775.35	32	23	17.319 N	104	14	59.395 W
9500.00	30.51	285.58	8970.30	545.86	-1958.15	504945.26	525726.45	32	23	17.454 N	104	14	59.965 W
9600.00	30.51	285.58	9056.46	559.49	-2007.06	504958.89	525677.54	32	23	17.589 N	104	15	0.536 W
9700.00	30.51	285.58	9142.61	573.13	-2055.97	504972.53	525628.63	32	23	17.724 N	104	15	1.106 W
9800.00	30.51	285.58	9228.76	586.76	-2104.88	504986.16	525579.72	32	23	17.860 N	104	15	1.676 W
9900.00	30.51	285.58	9314.91	600.39	-2153.78	504999.79	525530.82	32	23	17.995 N	104	15	2.246 W
10000.00	30.51	285.58	9401.07	614.03	-2202.69	505013.43	525481.91	32	23	18.130 N	104	15	2.817 W
10100.00	30.51	285.58	9487.22	627.66	-2251.60	505027.06	525433.00	32	23	18.266 N	104	15	3.387 W
10200.00	30.51	285.58	9573.37	641.29	-2300.50	505040.69	525384.10	32	23	18.401 N	104	15	3.957 W
10300.00	30.51	285.58	9659.52	654.93	-2349.41	505054.33	525335.19	32	23	18.536 N	104	15	4.527 W
10400.00	30.51	285.58	9745.67	668.56	-2398.32	505067.96	525286.28	32	23	18.671 N	104	15	5.098 W
10500.00	30.51	285.58	9831.83	682.20	-2447.22	505081.60	525237.38	32	23	18.807 N	104	15	5.668 W
10600.00	30.51	285.58	9917.98	695.83	-2496.13	505095.23	525188.47	32	23	18.942 N	104	15	6.238 W
10614.34	30.51	285.58	9930.33	697.78	-2503.14	505097.18	525181.46	32	23	18.961 N	104	15	6.320 W
10700.00	27.94	285.58	10005.08	709.01	-2543.43	505108.41	525141.17	32	23	19.073 N	104	15	6.790 W
10800.00	24.94	285.58	10094.61	720.97	-2586.32	505120.37	525098.28	32	23	19.192 N	104	15	7.290 W
10900.00	21.94	285.58	10186.35	731.65	-2624.64	505131.05	525059.96	32	23	19.298 N	104	15	7.736 W
11000.00	18.94	285.58	10280.04	741.03	-2658.27	505140.43	525026.33	32	23	19.391 N	104	15	8.129 W
11100.00	15.94	285.58	10375.43	749.08	-2687.14	505148.48	524997.46	32	23	19.470 N	104	15	8.465 W
11200.00	12.94	285.58	10472.26	755.77	-2711.17	505155.17	524973.43	32	23	19.537 N	104	15	8.745 W
11300.00	9.94	285.58	10570.26	761.10	-2730.27	505160.50	524954.33	32	23	19.590 N	104	15	8.968 W
11400.00	6.94	285.58	10669.17	765.04	-2744.41	505164.44	524940.19	32	23	19.629 N	104	15	9.133 W
11500.00	3.94	285.58	10768.70	767.59	-2753.55	505166.99	524931.05	32	23	19.654 N	104	15	9.240 W
11600.00	0.94	285.58	10868.60	768.73	-2757.65	505168.13	524926.95	32	23	19.665 N	104	15	9.287 W
11631.40	0.00	285.58	10900.00	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
11700.00	0.00	285.58	10968.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
11800.00	0.00	285.58	11068.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
11900.00	0.00	285.58	11168.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12000.00	0.00	285.58	11268.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12100.00	0.00	285.58	11368.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12200.00	0.00	285.58	11468.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12300.00	0.00	285.58	11568.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12400.00	0.00	285.58	11668.60	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W
12431.40	0.00	285.58	11700.00	768.80	-2757.90	505168.20	524926.70	32	23	19.666 N	104	15	9.290 W

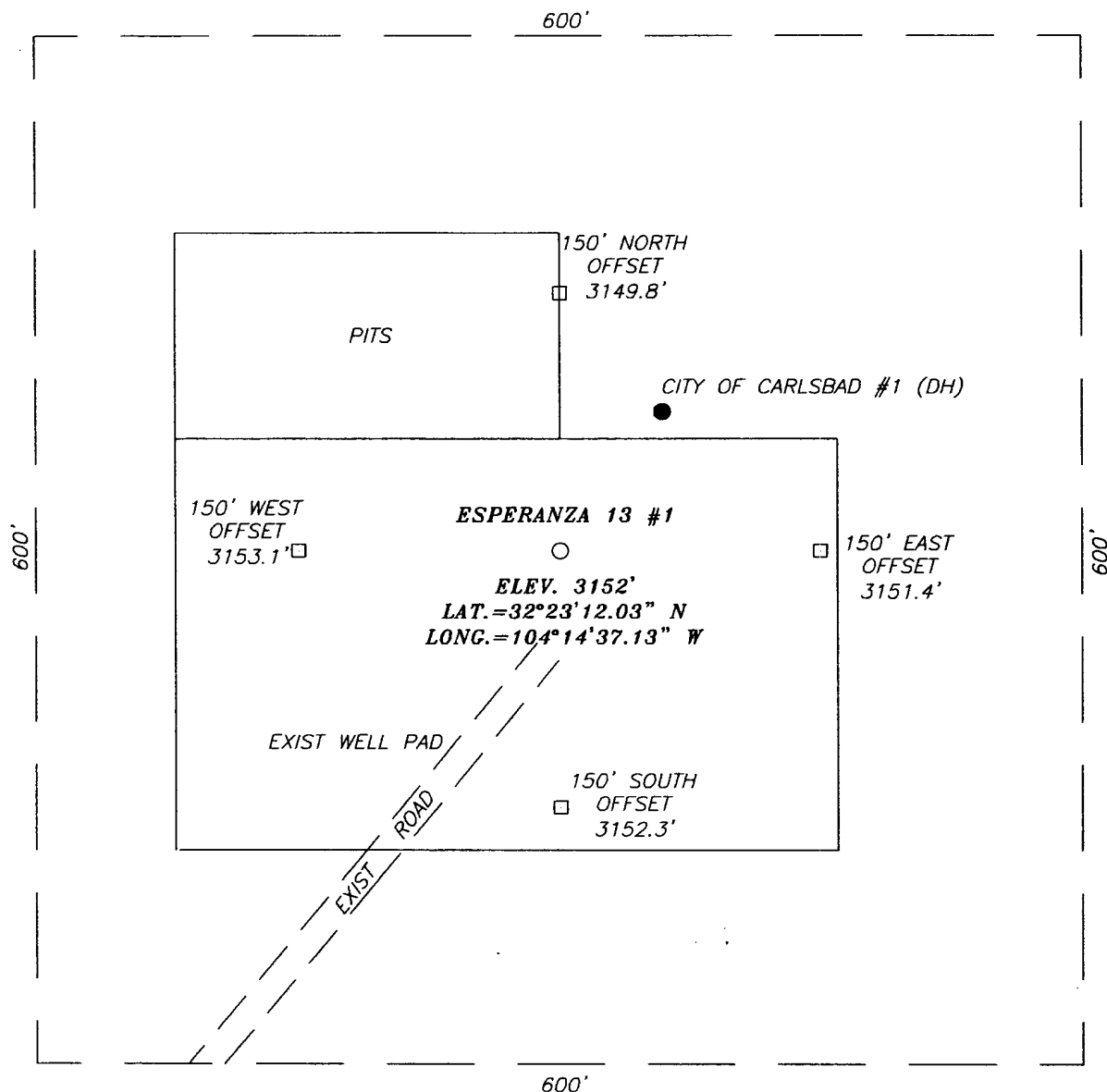


ESPARANZA 13 #1 EDDY COUNTY, NEW MEXICO PURE RESOURCES



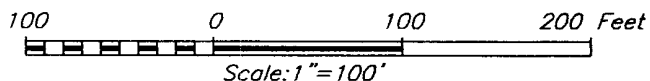
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4900.00	0.00	285.58	4900.00	0.00	0.00	0.00	0.00	0.00	
2	5000.00	0.00	285.58	5000.00	0.00	0.00	0.00	0.00	0.00	
3	6017.06	30.51	285.58	5969.67	71.02	-254.76	3.00	285.58	264.47	
4	10614.34	30.51	285.58	9930.33	697.78	-2503.14	0.00	0.00	2598.58	
5	11631.40	0.00	285.58	10900.00	768.80	-2757.90	3.00	180.00	2863.05	Displacement Target
6	12431.40	0.00	285.58	11700.00	768.80	-2757.90	0.00	285.58	2863.05	

SECTION 13, TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF BOYD ST. AND ROSE ST. (APPROX. 2 MILES SOUTH & 0.5 MILES WEST OF CARLSBAD). GO WEST 0.46 MILES ON CALICHE ROAD (WEST SIDE OF BOYD ST.) TURN RIGHT GO 0.2 MILES TO THIS LOCATION.



PURE RESOURCES, L.P.

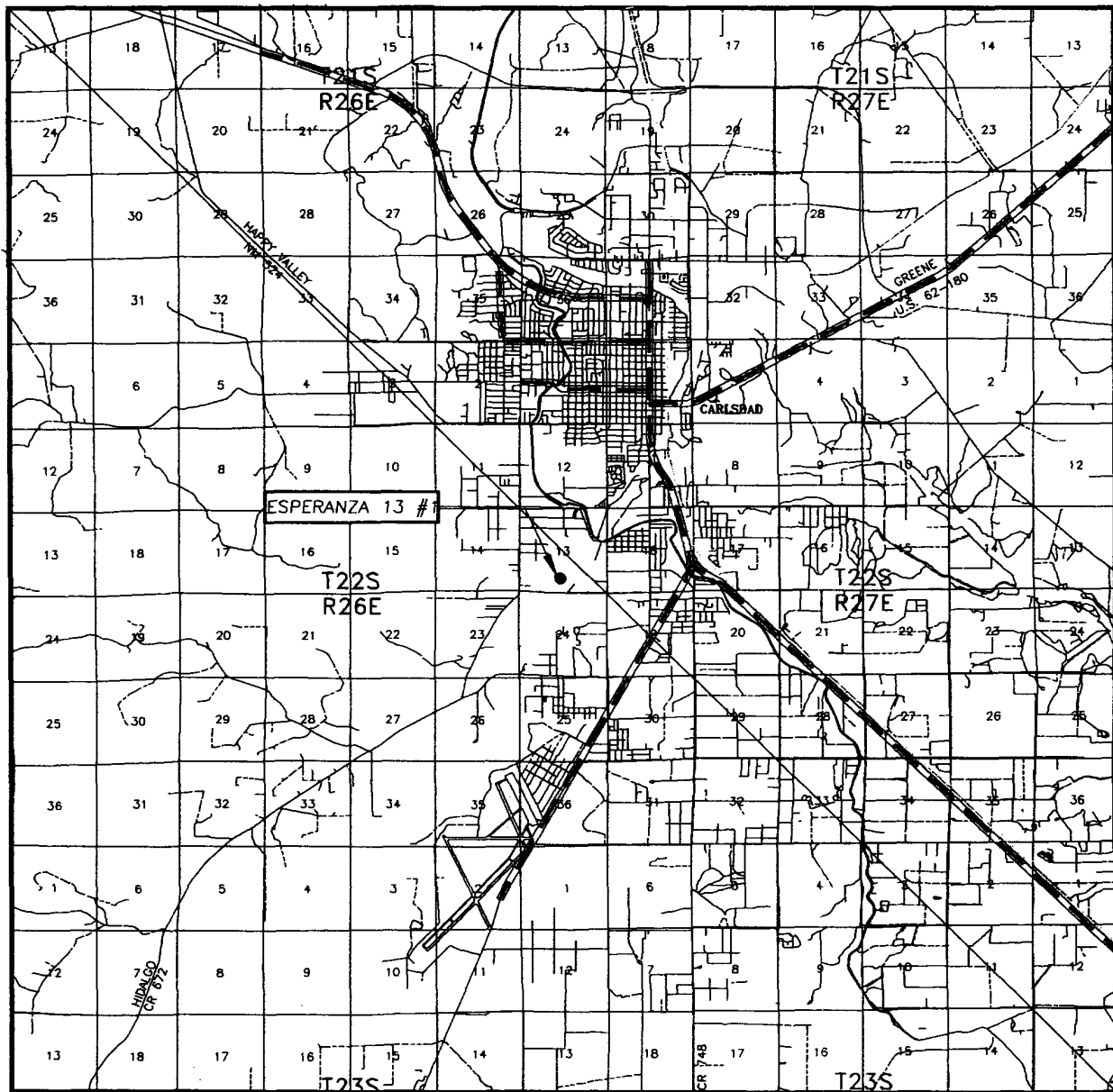
ESPERANZA 13 #1 WELL
LOCATED 612 FEET FROM THE SOUTH LINE
AND 2037 FEET FROM THE EAST LINE OF SECTION 13,
TOWNSHIP 22 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



**PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117**

Survey Date: 04/30/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0497	Dr By: J. RIVERO
Date: 05/07/04	Disk: CD#10
04110497	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 13 TWP. 22-S RGE. 26-E

SURVEY N.M.P.M.

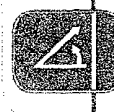
COUNTY EDDY

DESCRIPTION 612' FSL & 2037' FEL

ELEVATION 3152'

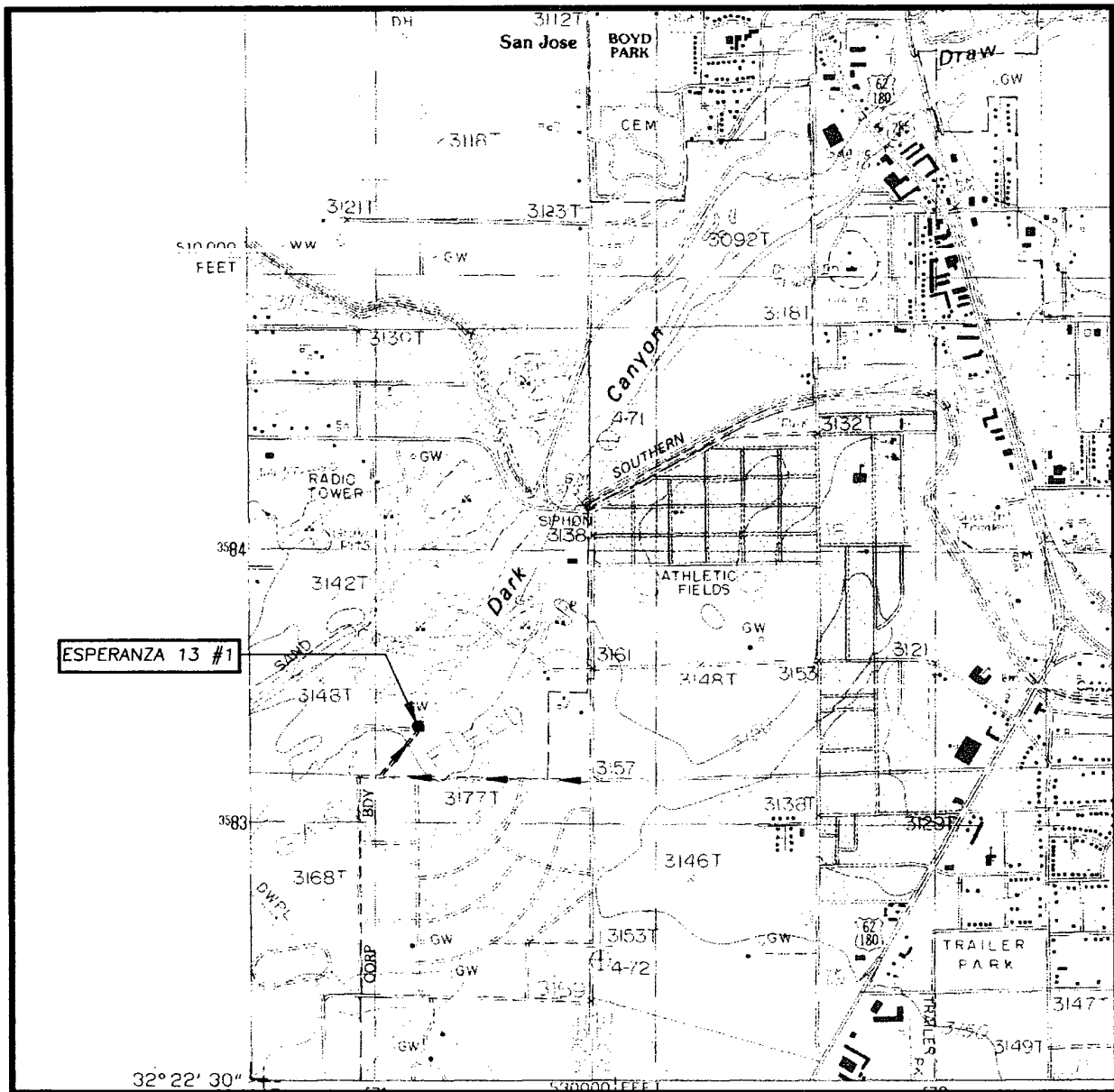
OPERATOR PURE RESOURCES, L.P.

LEASE ESPERANZA 13



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBBS, N.M. 88240
(505) 383-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
CARLSBAD EAST, N.M. -10'

SEC. 13 TWP. 22-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 612' FSL & 2037' FEL

ELEVATION 3152'

OPERATOR PURE RESOURCES, L.P.

LEASE ESPERANZA 13

U.S.G.S. TOPOGRAPHIC MAP
CARLSBAD EAST, N.M.

