

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

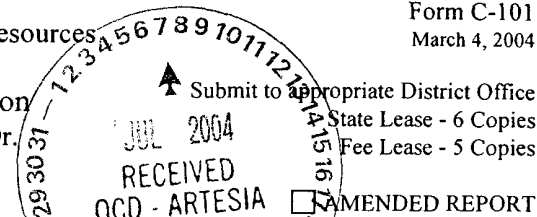
State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101

March 4, 2004

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

¹ Operator Name and Address HEC Petroleum, Inc. 500 W. Illinois Midland, Texas 79701		² OCBP Number 30 - 015 - 33501
³ Property Code	⁵ Property Name Douglas Com.	⁶ Well No. 2

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
H	7	22-S	27-E		2,460'	North	300'	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
P	7	22-S	27-E		990'	South	990'	East	Eddy

⁹ Proposed Pool 1

Carlsbad; Morrow, South (Pro Gas) (73960)

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3,099'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,071' MD 11,700' 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 8,720' TVD	880 SX	1,700'
6-1/8"	4-1/2" Liner	11.6# P110HC	8,800' MD 12,071' 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.

HEC Petroleum, Inc. is proposing to drill a Directional well to the Carlsbad; Morrow, South (Pro Gas) Pool (73960). This well's surface location is located outside the City Limits of Carlsbad adjoining the pad of Douglas Com #1. 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: *Alan W. Bohling*

Printed name: Alan W. Bohling

Title: Regulatory Agent

E-mail Address: abohling@pureresources.com

Date: June 2, 2004

Phone: (432) 498-8662

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date: JUL 14 2004

Expiration Date: JUL 14 2005

Conditions of Approval:

Attached ☐

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

GEODETIC COORDINATES NAD 27 NME Y=512134.3 N X=534767.6 E LAT.=32°24'28.52" N LONG.=104°13'14.43" W BOTTOM HOLE Y=510211.7 N X=534078.1 E	OPERATOR CERTIFICATION <i>I hereby certify the the information contained hereth is true and complete to the best of my knowledge and belief.</i> Signature Alan W. Bohling Printed Name Regulatory Agent Title June 2, 2004 Date SURVEYOR CERTIFICATION <i>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.</i> MAY, 3 2004 Date Surveyed Signature & Seal of Professional Surveyor 5/10/04 Certificate No. GARY EIDSON 12641
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DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

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 DD, Artesia, NM 88211-0719

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 73960	Pool Name Carlsbad; Morrow, South (Pro Gas)
Property Code	Property Name DOUGLAS COM.	Well Number 2
OGRID No. 9812	Operator Name HEC Petroleum, Inc.	Elevation 3099'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	7	22-S	27-E		2460'	NORTH	300'	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
P	7	22-S	27-E		990'	SOUTH	990'	EAST	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Alan W. Bohling</u> Signature <u>Alan W. Bohling</u> Printed Name <u>Regulatory Agent</u> Title <u>June 2, 2004</u> 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. <u>MAY, 3 2004</u> Date Surveyed <u>GARY EIBSON</u> Signature & Seal of Professional Surveyor <u>5/10/04</u> Date <u>04110498</u> Certificate No. <u>CARY EIBSON</u> 12641

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State of New Mexico
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: Douglas Com #2 API #: _____ U/L or Qtr/Qtr_H _____ Sec 7 T 22-S R 27-E
County: Eddy Latitude 32 24' 28.52" Longitude 104 13' 14.43" Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit	Below-grade tank	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Volume <u>2000</u> bbl	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>29'</u> Avg.	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) <u>~380'</u>	Yes	(20 points)
	No	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) <u>Dark Canyon Draw ~ 500' north.</u>	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		<u>60</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: 6/2/2004

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: JUN 7 2004

Date: JUN 7 2004

Printed Name/Title _____

Signature [Signature]

Pure Resources, L. P.
Douglas Com. Well No. 2
2,460' FNL & 300' FEL
UL H, Sec. 7, T-22-S, R-27-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.

Pure Resources, L. P. is utilizing the services and equipment of *Safety International* to prepare and have on location an Emergency Preparedness and Response Plan as well as an H2S Contingency Plan. A safety trailer and H2S monitoring equipment and emergency breathing apparatus will be employed on location during drilling activity. Pure Resources, L. P. will also be using site perimeter fencing and vehicle gate guards to minimize any unauthorized access.

Douglas Com #2

API No. _____

2460' FNL & 300' FEL (UL "H")

7 – T22S – R27E

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 ½"	13 3/8"	48	H40	STC	400'	440 sx	Surface
12¼"	95/8"	36	J55	STC	1800'	580 sx	Surface
8¾"	7"	23	P110HC	LTC	9000' MD 8720' TVD	880 sx	1700'
6 1/8"	4½" Liner	11.6	P110HC	LTC	8800' MD - 12071' MD	315 sx	Liner will be fully cemented with cmt across lap into 7" casing.

Note: 7" intermediate 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.

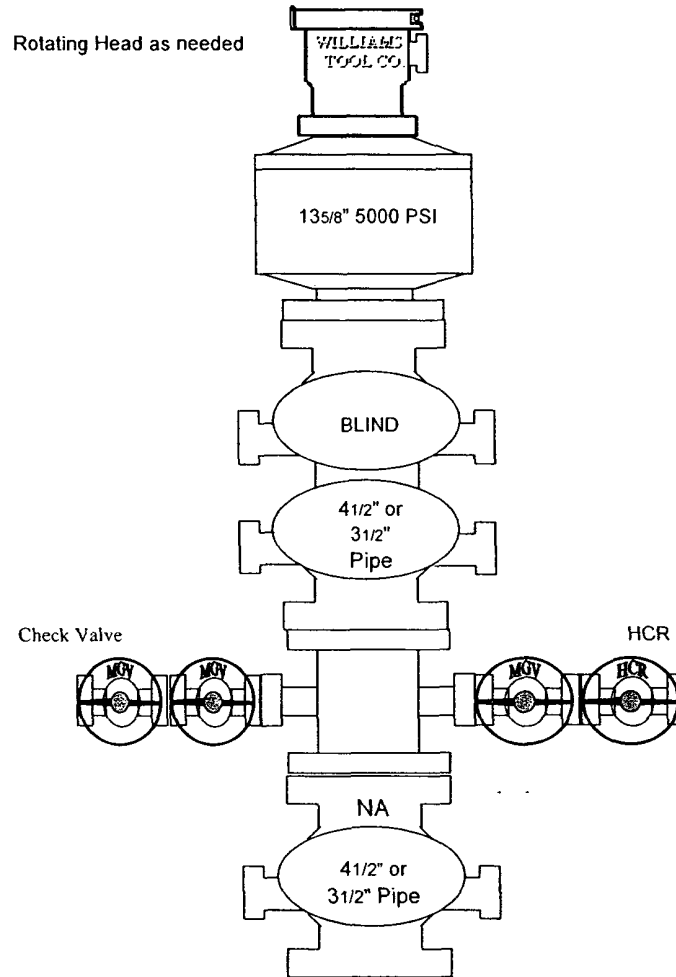
Proposed Mud Program

Interval	Type	Weight ppg
0' - 400'	FW / Spud Mud	8.4 – 9.0
400' – 1800'	FW w/ LCM as needed	8.4 – 9.0
1800' – 9000' MD'	FW w/ LCM as needed	8.4 - 9.2
9000' MD - 12100'	Brine 35+ vis, FL 6-8 across zones of interest	9.8 – 11.0

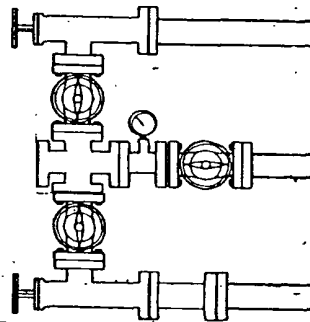
Douglas Com # 2

2460' FNL and 300' FEL
7 - T22S - R27E
Eddy County, New Mexico

135/8" - 10K Stack

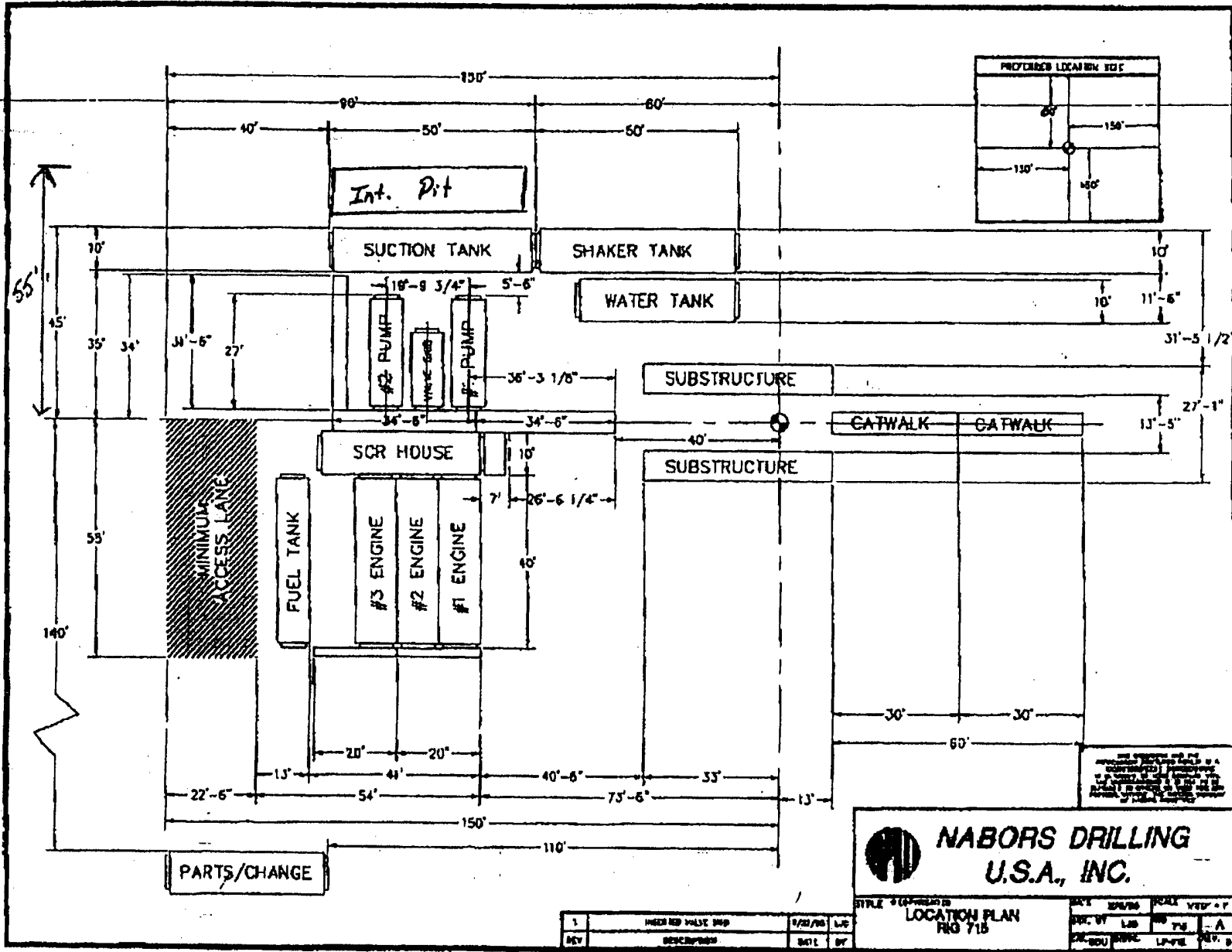


Remote Adjustable Choke



Adjustable choke

2" min 10,000 psi WP Double valve manifold



NABORS DRILLING U.S.A., INC.

LOCATION PLAN

FIG 715

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR VALVE SHOP	9/20/80	LJC
2	ISSUED FOR VALVE SHOP	9/20/80	LJC
3	ISSUED FOR VALVE SHOP	9/20/80	LJC
4	ISSUED FOR VALVE SHOP	9/20/80	LJC
5	ISSUED FOR VALVE SHOP	9/20/80	LJC
6	ISSUED FOR VALVE SHOP	9/20/80	LJC
7	ISSUED FOR VALVE SHOP	9/20/80	LJC
8	ISSUED FOR VALVE SHOP	9/20/80	LJC
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27	ISSUED FOR VALVE SHOP	9/20/80	LJC
28	ISSUED FOR VALVE SHOP	9/20/80	LJC
29	ISSUED FOR VALVE SHOP	9/20/80	LJC
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96	ISSUED FOR VALVE SHOP	9/20/80	LJC
97	ISSUED FOR VALVE SHOP	9/20/80	LJC
98	ISSUED FOR VALVE SHOP	9/20/80	LJC
99	ISSUED FOR VALVE SHOP	9/20/80	LJC
100	ISSUED FOR VALVE SHOP	9/20/80	LJC

Company: Pure Resources	Date: 5/12/2004	Time: 16:02:08	Page: 1
Field: Carlsbad South Field	Co-ordinate(NE) Reference: Well: Douglas Com #2, Grid North		
Site: Douglas Com	Vertical (TVD) Reference: SITE 0.0		
Well: Douglas Com #2	Section (VS) Reference: User (0.00N,0.00E,199.73Azi)		
Wellpath: 1	Plan: Plan #1		

Field: Carlsbad South Field

Eddy County, NM

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Eastern Zone

Coordinate System:

Well Centre

Geomagnetic Model:

igrf2000

Site: Douglas Com
Sec 7, T22S, R27E
Eddy County, NM

Site Position:	From: Map	Northing: 512134.30 ft	Latitude: 32 24 28.515 N
Position Uncertainty:	0.00 ft	Easting: 534767.60 ft	Longitude: 104 13 14.435 W
Ground Level:	0.00 ft	North Reference:	Grid
		Grid Convergence:	0.06 deg

Well: Douglas Com #2

Slot Name:

Well Position:	+N/-S 0.00 ft	Northing: 512134.30 ft	Latitude: 32 24 28.515 N
	+E/-W 0.00 ft	Easting: 534767.60 ft	Longitude: 104 13 14.435 W
Position Uncertainty:	0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 4/6/2004		Tie-on Depth: 0.00 ft
Field Strength: 49536 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 8.92 deg
ft	ft	Mag Dip Angle: 60.49 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00 199.73

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	199.73	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	199.73	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5718.17	21.55	199.73	5701.36	-125.61	-45.05	3.00	3.00	0.00	199.73	
10553.28	21.55	199.73	10198.64	-1796.99	-644.45	0.00	0.00	0.00	0.00	
11271.45	0.00	199.73	10900.00	-1922.60	-689.50	3.00	-3.00	0.00	180.00	Displacement Target
12071.45	0.00	199.73	11700.00	-1922.60	-689.50	0.00	0.00	0.00	199.73	

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	199.73	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	199.73	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	199.73

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	199.73	5099.95	-2.46	-0.88	2.62	3.00	3.00	0.00	0.00
5200.00	6.00	199.73	5199.63	-9.85	-3.53	10.46	3.00	3.00	0.00	0.00
5300.00	9.00	199.73	5298.77	-22.13	-7.94	23.51	3.00	3.00	0.00	0.00
5400.00	12.00	199.73	5397.08	-39.29	-14.09	41.74	3.00	3.00	0.00	0.00
5500.00	15.00	199.73	5494.31	-61.26	-21.97	65.08	3.00	3.00	0.00	0.00
5600.00	18.00	199.73	5590.18	-87.99	-31.56	93.48	3.00	3.00	0.00	0.00
5700.00	21.00	199.73	5684.43	-119.41	-42.82	126.85	3.00	3.00	0.00	0.00
5718.17	21.55	199.73	5701.36	-125.61	-45.05	133.44	3.00	3.00	0.00	0.00

Company: Pure Resources
 Field: Carlsbad South Field
 Site: Douglas Com
 Well: Douglas Com #2
 Wellpath: 1

Date: 5/12/2004 Time: 16:02:08 Page: 2
 Co-ordinate(NE) Reference: Well: Douglas Com #2, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: User (0.00N,0.00E,199.73Azi)
 Plan: Plan #1

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
5800.00	21.55	199.73	5777.48	-153.90	-55.19	163.49	0.00	0.00	0.00	180.00
5900.00	21.55	199.73	5870.49	-188.46	-67.59	200.22	0.00	0.00	0.00	180.00
6000.00	21.55	199.73	5963.50	-223.03	-79.99	236.94	0.00	0.00	0.00	180.00
6100.00	21.55	199.73	6056.52	-257.60	-92.38	273.66	0.00	0.00	0.00	180.00
6200.00	21.55	199.73	6149.53	-292.17	-104.78	310.39	0.00	0.00	0.00	180.00
6300.00	21.55	199.73	6242.54	-326.74	-117.18	347.11	0.00	0.00	0.00	180.00
6400.00	21.55	199.73	6335.55	-361.30	-129.57	383.83	0.00	0.00	0.00	180.00
6500.00	21.55	199.73	6428.57	-395.87	-141.97	420.56	0.00	0.00	0.00	180.00
6600.00	21.55	199.73	6521.58	-430.44	-154.37	457.28	0.00	0.00	0.00	180.00
6700.00	21.55	199.73	6614.59	-465.01	-166.76	494.00	0.00	0.00	0.00	180.00
6800.00	21.55	199.73	6707.61	-499.57	-179.16	530.73	0.00	0.00	0.00	180.00
6900.00	21.55	199.73	6800.62	-534.14	-191.56	567.45	0.00	0.00	0.00	180.00
7000.00	21.55	199.73	6893.63	-568.71	-203.96	604.17	0.00	0.00	0.00	180.00
7100.00	21.55	199.73	6986.64	-603.28	-216.35	640.90	0.00	0.00	0.00	180.00
7200.00	21.55	199.73	7079.66	-637.84	-228.75	677.62	0.00	0.00	0.00	180.00
7300.00	21.55	199.73	7172.67	-672.41	-241.15	714.34	0.00	0.00	0.00	180.00
7400.00	21.55	199.73	7265.68	-706.98	-253.54	751.07	0.00	0.00	0.00	180.00
7500.00	21.55	199.73	7358.70	-741.55	-265.94	787.79	0.00	0.00	0.00	180.00
7600.00	21.55	199.73	7451.71	-776.11	-278.34	824.51	0.00	0.00	0.00	180.00
7700.00	21.55	199.73	7544.72	-810.68	-290.73	861.24	0.00	0.00	0.00	180.00
7800.00	21.55	199.73	7637.73	-845.25	-303.13	897.96	0.00	0.00	0.00	180.00
7900.00	21.55	199.73	7730.75	-879.82	-315.53	934.68	0.00	0.00	0.00	180.00
8000.00	21.55	199.73	7823.76	-914.38	-327.92	971.41	0.00	0.00	0.00	180.00
8100.00	21.55	199.73	7916.77	-948.95	-340.32	1008.13	0.00	0.00	0.00	180.00
8200.00	21.55	199.73	8009.79	-983.52	-352.72	1044.85	0.00	0.00	0.00	180.00
8300.00	21.55	199.73	8102.80	-1018.09	-365.12	1081.58	0.00	0.00	0.00	180.00
8400.00	21.55	199.73	8195.81	-1052.65	-377.51	1118.30	0.00	0.00	0.00	180.00
8500.00	21.55	199.73	8288.82	-1087.22	-389.91	1155.02	0.00	0.00	0.00	180.00
8600.00	21.55	199.73	8381.84	-1121.79	-402.31	1191.75	0.00	0.00	0.00	180.00
8700.00	21.55	199.73	8474.85	-1156.36	-414.70	1228.47	0.00	0.00	0.00	180.00
8800.00	21.55	199.73	8567.86	-1190.92	-427.10	1265.19	0.00	0.00	0.00	180.00
8900.00	21.55	199.73	8660.88	-1225.49	-439.50	1301.92	0.00	0.00	0.00	180.00
9000.00	21.55	199.73	8753.89	-1260.06	-451.89	1338.64	0.00	0.00	0.00	180.00
9100.00	21.55	199.73	8846.90	-1294.63	-464.29	1375.36	0.00	0.00	0.00	180.00
9200.00	21.55	199.73	8939.92	-1329.19	-476.69	1412.09	0.00	0.00	0.00	180.00
9300.00	21.55	199.73	9032.93	-1363.76	-489.08	1448.81	0.00	0.00	0.00	180.00
9400.00	21.55	199.73	9125.94	-1398.33	-501.48	1485.53	0.00	0.00	0.00	180.00
9500.00	21.55	199.73	9218.95	-1432.90	-513.88	1522.26	0.00	0.00	0.00	180.00
9600.00	21.55	199.73	9311.97	-1467.47	-526.28	1558.98	0.00	0.00	0.00	180.00
9700.00	21.55	199.73	9404.98	-1502.03	-538.67	1595.70	0.00	0.00	0.00	180.00
9800.00	21.55	199.73	9497.99	-1536.60	-551.07	1632.43	0.00	0.00	0.00	180.00
9900.00	21.55	199.73	9591.01	-1571.17	-563.47	1669.15	0.00	0.00	0.00	180.00
10000.00	21.55	199.73	9684.02	-1605.74	-575.86	1705.87	0.00	0.00	0.00	180.00
10100.00	21.55	199.73	9777.03	-1640.30	-588.26	1742.60	0.00	0.00	0.00	180.00
10200.00	21.55	199.73	9870.04	-1674.87	-600.66	1779.32	0.00	0.00	0.00	180.00
10300.00	21.55	199.73	9963.06	-1709.44	-613.05	1816.04	0.00	0.00	0.00	180.00
10400.00	21.55	199.73	10056.07	-1744.01	-625.45	1852.77	0.00	0.00	0.00	180.00
10500.00	21.55	199.73	10149.08	-1778.57	-637.85	1889.49	0.00	0.00	0.00	180.00
10553.28	21.55	199.73	10198.64	-1796.99	-644.45	1909.05	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
10600.00	20.14	199.73	10242.30	-1812.64	-650.06	1925.68	3.00	-3.00	0.00	-180.00
10700.00	17.14	199.73	10337.04	-1842.73	-660.86	1957.64	3.00	-3.00	0.00	180.00
10800.00	14.14	199.73	10433.33	-1868.11	-669.96	1984.61	3.00	-3.00	0.00	180.00
10900.00	11.14	199.73	10530.89	-1888.71	-677.34	2006.49	3.00	-3.00	0.00	180.00
11000.00	8.14	199.73	10629.47	-1904.47	-683.00	2023.24	3.00	-3.00	0.00	180.00
11100.00	5.14	199.73	10728.78	-1915.36	-686.90	2034.81	3.00	-3.00	0.00	180.00
11200.00	2.14	199.73	10828.57	-1921.34	-689.05	2041.16	3.00	-3.00	0.00	180.00
11271.45	0.00	199.73	10900.00	-1922.60	-689.50	2042.50	3.00	-3.00	0.00	-180.00

Company: Pure Resources
 Field: Carlsbad South Field
 Site: Douglas Com
 Well: Douglas Com #2
 Wellpath: 1

Date: 5/12/2004 Time: 16:02:08 Page: 3
 Co-ordinate(NE) Reference: Well: Douglas Com #2, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: User (0.00N,0.00E,199.73Azi)
 Plan: Plan #1

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
11300.00	0.00	199.73	10928.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11400.00	0.00	199.73	11028.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11500.00	0.00	199.73	11128.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11600.00	0.00	199.73	11228.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11700.00	0.00	199.73	11328.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11800.00	0.00	199.73	11428.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
11900.00	0.00	199.73	11528.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
12000.00	0.00	199.73	11628.55	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73
12071.45	0.00	199.73	11700.00	-1922.60	-689.50	2042.50	0.00	0.00	0.00	199.73

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	199.73	4900.00	0.00	0.00	512134.30	534767.60	32	24	28.515 N	104 13 14.435 W
5000.00	0.00	199.73	5000.00	0.00	0.00	512134.30	534767.60	32	24	28.515 N	104 13 14.435 W
5100.00	3.00	199.73	5099.95	-2.46	-0.88	512131.84	534766.72	32	24	28.491 N	104 13 14.445 W
5200.00	6.00	199.73	5199.63	-9.85	-3.53	512124.45	534764.07	32	24	28.418 N	104 13 14.476 W
5300.00	9.00	199.73	5298.77	-22.13	-7.94	512112.17	534759.66	32	24	28.296 N	104 13 14.528 W
5400.00	12.00	199.73	5397.08	-39.29	-14.09	512095.01	534753.51	32	24	28.127 N	104 13 14.599 W
5500.00	15.00	199.73	5494.31	-61.26	-21.97	512073.04	534745.63	32	24	27.909 N	104 13 14.692 W
5600.00	18.00	199.73	5590.18	-87.99	-31.56	512046.31	534736.04	32	24	27.645 N	104 13 14.804 W
5700.00	21.00	199.73	5684.43	-119.41	-42.82	512014.89	534724.78	32	24	27.334 N	104 13 14.936 W
5718.17	21.55	199.73	5701.36	-125.61	-45.05	512008.69	534722.55	32	24	27.273 N	104 13 14.962 W
5800.00	21.55	199.73	5777.48	-153.90	-55.19	511980.40	534712.41	32	24	26.993 N	104 13 15.080 W
5900.00	21.55	199.73	5870.49	-188.46	-67.59	511945.84	534700.01	32	24	26.651 N	104 13 15.225 W
6000.00	21.55	199.73	5963.50	-223.03	-79.99	511911.27	534687.61	32	24	26.309 N	104 13 15.370 W
6100.00	21.55	199.73	6056.52	-257.60	-92.38	511876.70	534675.22	32	24	25.967 N	104 13 15.515 W
6200.00	21.55	199.73	6149.53	-292.17	-104.78	511842.13	534662.82	32	24	25.625 N	104 13 15.660 W
6300.00	21.55	199.73	6242.54	-326.74	-117.18	511807.56	534650.42	32	24	25.283 N	104 13 15.806 W
6400.00	21.55	199.73	6335.55	-361.30	-129.57	511773.00	534638.03	32	24	24.941 N	104 13 15.951 W
6500.00	21.55	199.73	6428.57	-395.87	-141.97	511738.43	534625.63	32	24	24.599 N	104 13 16.096 W
6600.00	21.55	199.73	6521.58	-430.44	-154.37	511703.86	534613.23	32	24	24.257 N	104 13 16.241 W
6700.00	21.55	199.73	6614.59	-465.01	-166.76	511669.29	534600.84	32	24	23.915 N	104 13 16.386 W
6800.00	21.55	199.73	6707.61	-499.57	-179.16	511634.73	534588.44	32	24	23.573 N	104 13 16.531 W
6900.00	21.55	199.73	6800.62	-534.14	-191.56	511600.16	534576.04	32	24	23.231 N	104 13 16.676 W
7000.00	21.55	199.73	6893.63	-568.71	-203.96	511565.59	534563.64	32	24	22.889 N	104 13 16.821 W
7100.00	21.55	199.73	6986.64	-603.28	-216.35	511531.02	534551.25	32	24	22.547 N	104 13 16.966 W
7200.00	21.55	199.73	7079.66	-637.84	-228.75	511496.46	534538.85	32	24	22.205 N	104 13 17.111 W
7300.00	21.55	199.73	7172.67	-672.41	-241.15	511461.89	534526.45	32	24	21.864 N	104 13 17.256 W
7400.00	21.55	199.73	7265.68	-706.98	-253.54	511427.32	534514.06	32	24	21.522 N	104 13 17.401 W
7500.00	21.55	199.73	7358.70	-741.55	-265.94	511392.75	534501.66	32	24	21.180 N	104 13 17.546 W
7600.00	21.55	199.73	7451.71	-776.11	-278.34	511358.19	534489.26	32	24	20.838 N	104 13 17.691 W
7700.00	21.55	199.73	7544.72	-810.68	-290.73	511323.62	534476.87	32	24	20.496 N	104 13 17.836 W
7800.00	21.55	199.73	7637.73	-845.25	-303.13	511289.05	534464.47	32	24	20.154 N	104 13 17.981 W
7900.00	21.55	199.73	7730.75	-879.82	-315.53	511254.48	534452.07	32	24	19.812 N	104 13 18.126 W
8000.00	21.55	199.73	7823.76	-914.38	-327.92	511219.92	534439.68	32	24	19.470 N	104 13 18.271 W
8100.00	21.55	199.73	7916.77	-948.95	-340.32	511185.35	534427.28	32	24	19.128 N	104 13 18.416 W
8200.00	21.55	199.73	8009.79	-983.52	-352.72	511150.78	534414.88	32	24	18.786 N	104 13 18.561 W
8300.00	21.55	199.73	8102.80	-1018.09	-365.12	511116.21	534402.48	32	24	18.444 N	104 13 18.706 W
8400.00	21.55	199.73	8195.81	-1052.65	-377.51	511081.65	534390.09	32	24	18.102 N	104 13 18.851 W
8500.00	21.55	199.73	8288.82	-1087.22	-389.91	511047.08	534377.69	32	24	17.760 N	104 13 18.996 W
8600.00	21.55	199.73	8381.84	-1121.79	-402.31	511012.51	534365.29	32	24	17.418 N	104 13 19.141 W
8700.00	21.55	199.73	8474.85	-1156.36	-414.70	510977.94	534352.90	32	24	17.076 N	104 13 19.286 W
8800.00	21.55	199.73	8567.86	-1190.92	-427.10	510943.38	534340.50	32	24	16.734 N	104 13 19.431 W

Company: Pure Resources
Field: Carlsbad South Field
Site: Douglas Com
Well: Douglas Com #2
Wellpath: 1

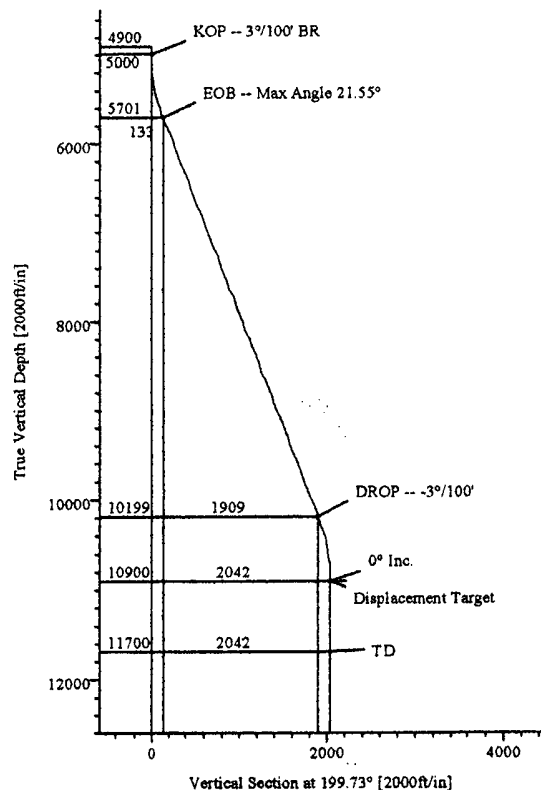
Date: 5/12/2004 Time: 16:02:08 Page: 4
Co-ordinate(NE) Reference: Well: Douglas Com #2, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: User (0.00N,0.00E,199.73Azi)
Plan: Plan #1

Survey

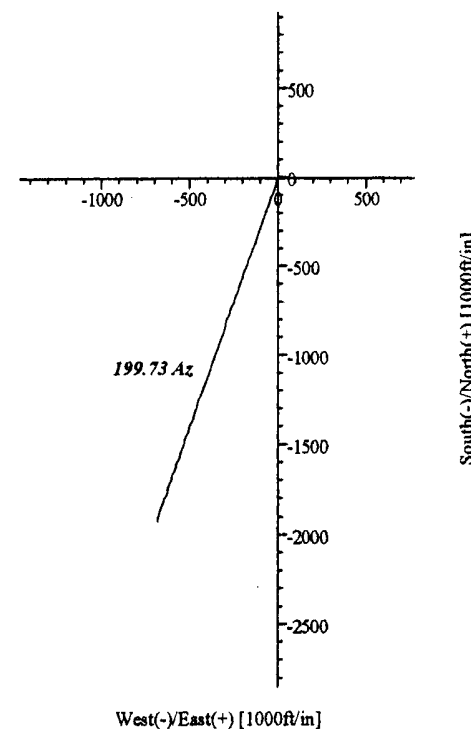
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
8900.00	21.55	199.73	8660.88	-1225.49	-439.50	510908.81	534328.10	32	24	16.392 N	104	13	19.576 W
9000.00	21.55	199.73	8753.89	-1260.06	-451.89	510874.24	534315.71	32	24	16.050 N	104	13	19.721 W
9100.00	21.55	199.73	8846.90	-1294.63	-464.29	510839.67	534303.31	32	24	15.708 N	104	13	19.866 W
9200.00	21.55	199.73	8939.92	-1329.19	-476.69	510805.11	534290.91	32	24	15.366 N	104	13	20.011 W
9300.00	21.55	199.73	9032.93	-1363.76	-489.08	510770.54	534278.52	32	24	15.024 N	104	13	20.156 W
9400.00	21.55	199.73	9125.94	-1398.33	-501.48	510735.97	534266.12	32	24	14.682 N	104	13	20.301 W
9500.00	21.55	199.73	9218.95	-1432.90	-513.88	510701.40	534253.72	32	24	14.340 N	104	13	20.446 W
9600.00	21.55	199.73	9311.97	-1467.47	-526.28	510666.83	534241.32	32	24	13.999 N	104	13	20.591 W
9700.00	21.55	199.73	9404.98	-1502.03	-538.67	510632.27	534228.93	32	24	13.657 N	104	13	20.736 W
9800.00	21.55	199.73	9497.99	-1536.60	-551.07	510597.70	534216.53	32	24	13.315 N	104	13	20.881 W
9900.00	21.55	199.73	9591.01	-1571.17	-563.47	510563.13	534204.13	32	24	12.973 N	104	13	21.026 W
10000.00	21.55	199.73	9684.02	-1605.74	-575.86	510528.56	534191.74	32	24	12.631 N	104	13	21.172 W
10100.00	21.55	199.73	9777.03	-1640.30	-588.26	510494.00	534179.34	32	24	12.289 N	104	13	21.317 W
10200.00	21.55	199.73	9870.04	-1674.87	-600.66	510459.43	534166.94	32	24	11.947 N	104	13	21.462 W
10300.00	21.55	199.73	9963.06	-1709.44	-613.05	510424.86	534154.55	32	24	11.605 N	104	13	21.607 W
10400.00	21.55	199.73	10056.07	-1744.01	-625.45	510390.29	534142.15	32	24	11.263 N	104	13	21.752 W
10500.00	21.55	199.73	10149.08	-1778.57	-637.85	510355.73	534129.75	32	24	10.921 N	104	13	21.897 W
10553.28	21.55	199.73	10198.64	-1796.99	-644.45	510337.31	534123.15	32	24	10.739 N	104	13	21.974 W
10600.00	20.14	199.73	10242.30	-1812.64	-650.06	510321.66	534117.54	32	24	10.584 N	104	13	22.040 W
10700.00	17.14	199.73	10337.04	-1842.73	-660.86	510291.57	534106.74	32	24	10.286 N	104	13	22.166 W
10800.00	14.14	199.73	10433.33	-1868.11	-669.96	510266.19	534097.64	32	24	10.035 N	104	13	22.272 W
10900.00	11.14	199.73	10530.89	-1888.71	-677.34	510245.59	534090.26	32	24	9.831 N	104	13	22.359 W
11000.00	8.14	199.73	10629.47	-1904.47	-683.00	510229.83	534084.60	32	24	9.675 N	104	13	22.425 W
11100.00	5.14	199.73	10728.78	-1915.36	-686.90	510218.94	534080.70	32	24	9.568 N	104	13	22.470 W
11200.00	2.14	199.73	10828.57	-1921.34	-689.05	510212.96	534078.55	32	24	9.509 N	104	13	22.496 W
11271.45	0.00	199.73	10900.00	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11300.00	0.00	199.73	10928.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11400.00	0.00	199.73	11028.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11500.00	0.00	199.73	11128.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11600.00	0.00	199.73	11228.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11700.00	0.00	199.73	11328.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11800.00	0.00	199.73	11428.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
11900.00	0.00	199.73	11528.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
12000.00	0.00	199.73	11628.55	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W
12071.45	0.00	199.73	11700.00	-1922.60	-689.50	510211.70	534078.10	32	24	9.496 N	104	13	22.501 W



DOUGLAS COM #2 EDDY COUNTY, NEW MEXICO PURE RESOURCES



Azimuths to Grid North
True North: -0.06°
Magnetic North: 8.86°
Magnetic Field
Strength: 49536nT
Dip Angle: 60.49°
Date: 4/6/2004
Model: igr2000



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4900.00	0.00	199.73	4900.00	0.00	0.00	0.00	0.00	0.00	
2	5000.00	0.00	199.73	5000.00	0.00	0.00	0.00	0.00	0.00	
3	5718.17	21.55	199.73	5701.36	-125.61	-45.05	3.00	199.73	133.44	
4	10553.28	21.55	199.73	10198.64	-1796.99	-644.45	0.00	0.00	1909.05	
5	11271.45	0.00	199.73	10900.00	-1922.60	-689.50	3.00	180.00	2042.50	Displacement Target
6	12071.45	0.00	199.73	11700.00	-1922.60	-689.50	0.00	199.73	2042.50	

Plan: Douglas Com #2

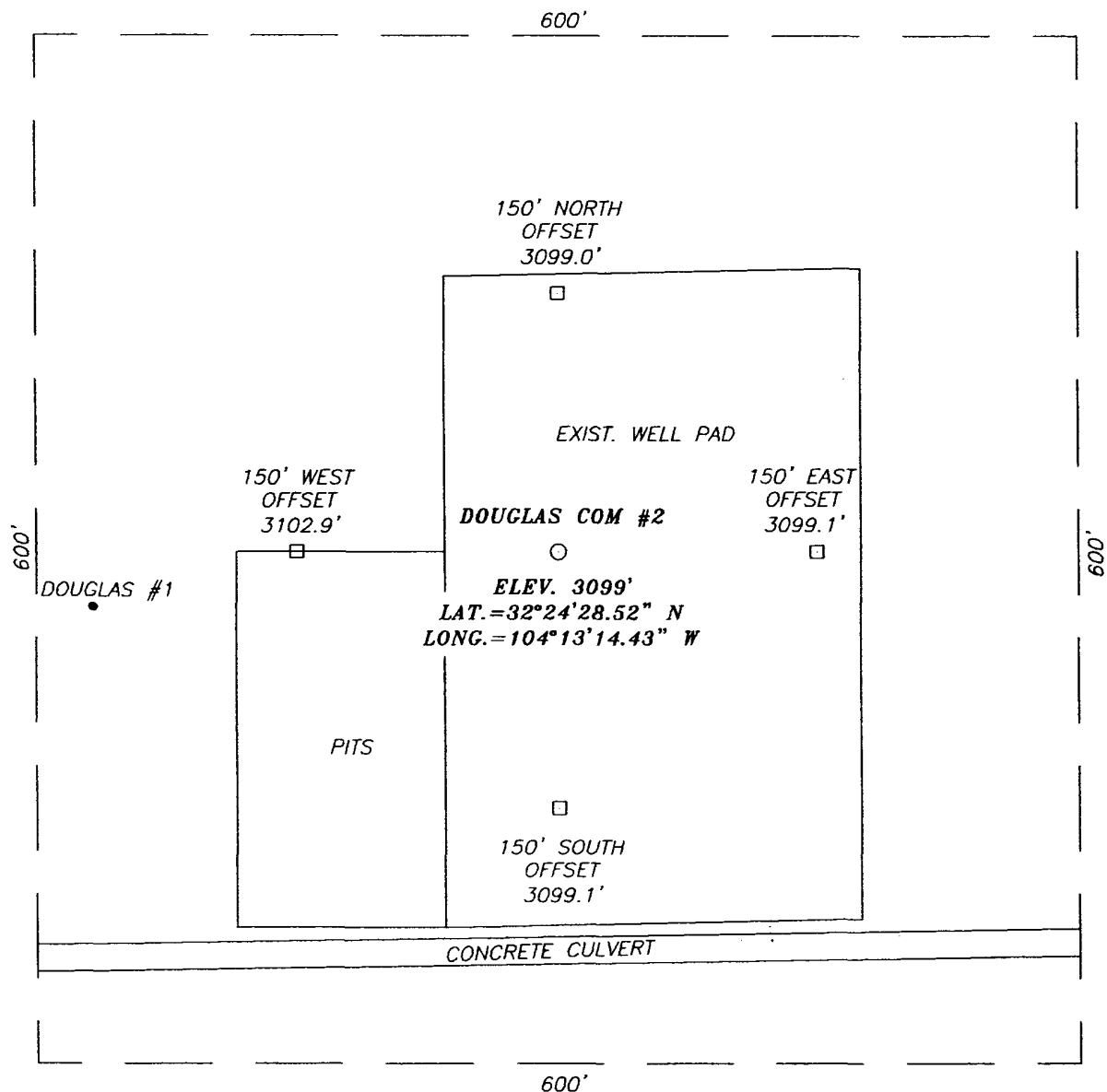
Created By: Ybes Ortiz Date: 5/12/2004

Checked: _____ Date: _____

Reviewed: _____ Date: _____

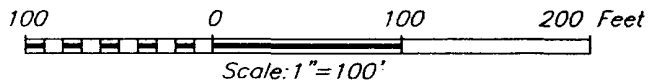
Approved: _____ Date: _____

SECTION 7, TOWNSHIP 22 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CANAL STREET AND FIESTA ST. (APPROX. 0.5 MILES SOUTH OF CARLSBAD). GO EAST ON FIESTA 0.1 MILES, TURN LEFT ON HILL ST. GO NORTH 0.2 MILES TO END OF THE STREET, THIS WELL IS 300' NORTHEAST IN THE PASTURE OPPOSITE OF THE DOUGLAS #1 LOCATION.



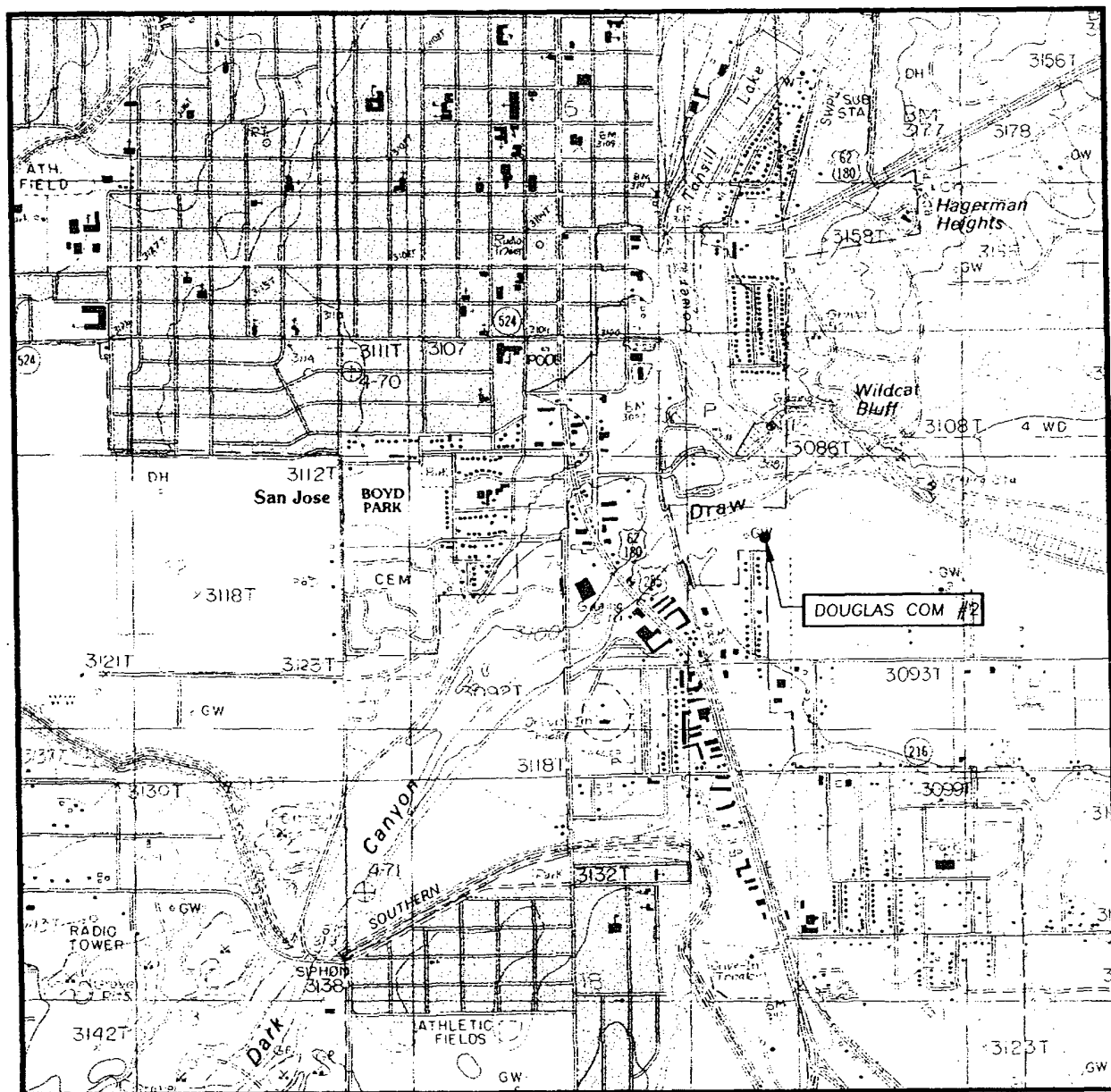
PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

PURE RESOURCES, L.P.

DOUGLAS COM. #2 WELL
LOCATED 2460 FEET FROM THE NORTH LINE
AND 300 FEET FROM THE EAST LINE OF SECTION 7,
TOWNSHIP 22 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 05/03/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0498	Dr By: J. RIVERO
Date: 05/07/04	Disk: CD#10
04110498	Scale: 1"=100'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 7 TWP. 22-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2460' FNL & 300' FEL

ELEVATION 3099'

OPERATOR PURE RESOURCES, L.P.

LEASE DOUGLAS COM.

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

