

4940 BROADWAY
SAN ANTONIO, TEXAS 78201
phone 512-826-0681

DAILY DRILLING REPORT

J.C. 28 B #1
B-28-24N-2W

WICARILLA 28B-1
455' FNL. 1510' FEL
NW/4 NE/4 SEC 26 T22N R2W PH N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

November 2, 1992

Depth 7,157' Pumping LCM pill

Drilled to 7,126', tripped for logs. ran BILL GR-CNL-COL. SONIC logs. drilled additional 31' lost circulation at 7,157'

Progress: 121' feet in 3 hrs. drilling. lost circ. at 7,126', pulled 5 studs. mix LCM pill. TIM spot LCM pill. regain circulation 1.5 hrs., cond. hole for logs POH 5.75 hrs., logging 7.75 hrs., TIM wash 50' 4 hrs., lost circ. at 7,157', pull 5 studs. mix LCM pill. TIM spot pill and regain circ. 2 hrs., Drill strings 9-7/8" bit. shocksub. 3-8" DC w/ 6-5/8" reg. 12-7" DC w/ 3-1/2" reg. 5" 19.5# Gr.E DP w/ 4-1/2" IF: Mud: Wt. 9.78/gal. Vis. 65 sec., PU/YP 15/20. Gels 3/9, API WL 6.4 ccs. Cake 1/32". Sand tr. Solids 4%, pH 9.2 Cl 400 mg/l. Ca 40 mg/l. Daily Mud Cost \$4,694. Cumu Mud Cost \$21,096. Circulating pressure 1650 psi. Annular velocity 8" collars 251'/min., drill pipe 116'/min. bottoms up 60 min., total circ. time 137 min., Surveys: none. Bit no. 3. 9-7/8" Smith F-2. SN KT9389. Jets 13/14/8. Depth in 5826' Drilling at 7,157'. made 1331' in 80.75 hrs. ave. RCF 16'/hr. ave. wt. 60M# at 50 RPH. pump 1650psi: Pump: #1 50 PTH 6.5" liner X 8" stroke 344 BPM at 100 SPH. #2 DPT 700 6.5" liner X 8" stroke 344 BPM at 100 SPH: Daily Cost \$12,559. Cumulative Cost \$285,008

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD. haul mud from reserve	\$ 1,100	20,800
RIG MOVE IN. RU. RD		15,200
DRILLING RIG TIME	5.025	67,000
RENTAL EQUIPMENT		20,380
DRILL BITS		16,312
DRILLING MUD AND CHEM	1,295	2,256
MUD TRANSPORTATION	1,000	2,400
CONTRACT ENGINEERING SERVICE	2,400	4,870
MUD EQUIPMENT RENTAL	375	10,670
WATER	160	
WELL BORE EVALUATION		
MUD LOGGING	400	5,000
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		5,600
GEOLOGICAL SUPERVISION	630	5,850
MISCELLANEOUS.		2,822
WELDING	350	1,050
FUEL	100	920
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,600
TUBULARS, 7-5/8"		61,050
INSURANCE. well control		5,040
TOTALS	\$ 12,559	\$ 285,008

4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-926-0481

DAILY DRILLING REPORT

JICARILLA 280-1
453' FNL, 1310' FEL
NW/4 NE/4 SEC 26 T27N R2W PM N.R.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

November 1, 1992

Depth 7036' Drilling in Mancos shale

Geological:

Progress: 404' feet in 23.75 hrs. drilling. rig service 0.25 hr.: Drill string: 9-7/8" bit, shocksub, 3 8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.9# gal. Vis. 55 sec., PV/YF 15/20, Gels 5/9, API WL 3.4 ccs. Cake 1/32", Sand tr., Solids 4%, pH 5.2, Cl 400 mg/l, Ca 40 mg/l, Daily Mud Cost \$1,300, Comm Mud Cost \$16,397; Circulating pressure 1650 psi. Annular velocity: 3" collars 251'/min., drill pipe 116'/min., bottoms up 59 min., total circ. time 137 min.; Surveys: none; Bit no. 5, 7-7/8" Smith F-2, SN KT9383, Jets 13/14/8, Depth in 5826' Drilling at 7036', made 1210' in 77.75 hrs. ave. ROP 16'/hr. ave. wt. 60MM at 50 RPM. pump 1650psi; Pump: #1 GD P28 6.5" liner X 8" stroke 344 GPM at 100 RPM. #2 GP1 700 6.5" liner X 8" stroke 344 GPM at 100 RPM; Daily Cost \$8,850. Cumulative Cost \$272,146

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 13.000
LOCATION & ROAD		24.700
RIG MOVE IN, RD		13.200
DRILLING RIG TIME	\$ 5.025	62.775
RENTAL EQUIPMENT		
DRILL BITS		20.580
DRILLING MUD AND CHEM	1.300	15.213
MUD TRANSPORTATION		1.236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	4.493
WATER	1.000	10.530
WELL BORE EVALUATION		
MUD LOGGING	400	4.600
DRILL STEM TESTING		
CEMENTING SERVICES		5.400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	5.800
GEOLOGICAL SUPERVISION		5.200
MISCELLANEOUS		2.826
WELDING		700
FUEL	100	820
TOILET/SEPTIC SERVICE		200
WELL HEAD		2.050
TUBULARS, 7-5/8"		61.050
INSURANCE, well control		5.040
TOTALS	\$ 8.850	\$ 272,146

4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL. 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.H.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 31, 1992

Depth 6632' Drilling in Mancos shale

Geological:

Progress: 317' feet in 21.5 hrs. drilling, service 0.5 hr., survey 0.75 hr.: Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg. 12-7" DC w/ 5-1/2" reg. 5" 19.5# Br.E DP w/ 4-1/2" IF: Mud: Wt. 9.0#/gal. Vis. 53 sec., PV/YP 19/18. Gels 3/12. API WL 8.0 ccs. Cake 1/32". Sand tr. Solids 4%. pH 9.0. Cl 400 mg/l. Ca 40 mg/l. Daily Mud Cost \$2,613. Cum Mud Cost \$15,097: Circulating pressure 1600 psi. Annular velocity: 8" collars 251'/min., drill pipe 116'/min. bottoms up 56 min., total circ. time 135 min.: Surveys: 1.25 degrees at 6299': bit no. 3. 9-7/8" Smith F-2. SN KT9383. Jets 13/14/8. Depth in 5826' Drilling at 6632', made 806' in 53.5 hrs. ave. ROP 15'/hr. ave. wt. 60M# at 50 RPM, pump 1650psi: Pump: #1 30 PZB 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 CFI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM:

Daily Cost \$8,146. Cumulative Cost \$254,133

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	\$ 5,025	57,750
RENTAL EQUIPMENT		
DRILL BITS		20,580
DRILLING MUD AND CHEM	2,613	13,913
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	4,120
WATER		9,530
WELL BORE EVALUATION		
MUD LOGGING	400	4,200
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		5,200
GEOLOGICAL SUPERVISION	450	5,200
MISCELLANEOUS,		2,822
WELDING		700
FUEL	100	720
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS, 7-5/8"		61,050
INSURANCE, well control		5,040
TOTALS	\$ 9,163	\$ 263,296

4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL. 1310' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 31, 1992

Depth 6632' Drilling in Mancos shale

Geological:

Progress: 317' feet in 21.5 hrs. drilling, service 0.5 hr., survey 0.75 hr.; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg. 12-7" DC w/ 5-1/2" reg. 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 9.0#/gal. Vis. 13 sec. PV/YP 19/18. Gels 5/12, API WL 6.0 ccs, Cake 1/32", Sand tr., Solids 4%, pH 9.0, CI 400 mg/l, Ca 40 mg/l, Daily Mud Cost \$2,613, Cum. Mud Cost \$13,977; Circulating pressure 1600 psi. Annular velocity: 8" collars 251'/min., drill pipe 116'/min. bottoms up 56 min., total circ. time 135 min.; Surveys: 1.25 degrees at 6299'; Bit no. 5. 7-7/8" Smith F-2, SN KT9383, Jets 13/14/8, Depth in 5826' Drilling at 6632', made 806' in 33.5 hrs. ave. ROP 15'/hr. ave. wt. 60NH at 50 RPM, pump 1650psi; Pump: #1 GD P28 6.5" liner X 8" stroke 344 GPM at 100 SPN, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPN;

Daily Cost \$8,146. Cumulative Cost \$254,133

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	\$ 5,025	57,750
RENTAL EQUIPMENT		
DRILL BITS		20,580
DRILLING MUD AND CHEM	2,613	13,913
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	4,120
WATER		9,530
WELL BORE EVALUATION		
MUD LOGGING	400	4,200
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		5,200
GEOLOGICAL SUPERVISION	650	5,200
MISCELLANEOUS		2,822
WELDING		700
FUEL	100	720
TOILET/SEPTIC SERVICE		300
WELL HEAD		2,050
TUBULARS, 7-5/8"		61,050
INSURANCE, well control		5,040
TOTALS	\$ 9,163	\$ 263,296

4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

DAILY DRILLING REPORT

JICARILLA 28E-1
455' FNL. 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 30, 1992

Depth 6,315' Drilling in Mesa Verde Formation

Geological:

Progress: 387' feet in 22.75 hrs. drilling, service 0.25, rig repair 0.5; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg. 12-7" DC w/ 5-1/2" reg. 3" 19.5# Gr. E DP w/ 4-1/2" IF; Mud: Wt. 9.0#/gal, Vis. 50 sec., PV/YP 17/17, Gels 5/12, API WL 8.0 ccs. Cake 1/32", Sand tr., Solids 4%, pH 9.0, Cl 400 mg/l, Ca 0 mg/l, Daily Mud Cost \$1,596. Cum Mud Cost \$12,536; Circulating pressure 1600 psi, Annular velocity: 9" collars 251'/min., drill pipe 116'/min. bottoms up 53 min., total circ. time 135 min.; Surveys: 1.5 degrees at 5826'; Bit no. 5, 9-7/8" Smith F-2, SN KT9383, Jets 13/14/8. Depth in 5826' Drilling at 6315', made 489' in 30.5 hrs. ave. ROP 16'/hr. ave. wt. 60HM at 50 RPM, pump 1600psi; Pumps: #1 60 PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPH, #2 DPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPH; Daily Cost \$8,146. Cumulative Cost \$254,133

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15.000
LOCATION & ROAD		24.700
RIG MOVE IN, RIG RD		13.200
DRILLING RIG TIME	\$ 3.025	52.725
RENTAL EQUIPMENT		
DRILL BITS		20.580
DRILLING MUD AND CHEM	1.596	11.300
MUD TRANSPORTATION		1.236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	3.745
WATER		9.530
WELL BORE EVALUATION		
MUD LOGGING	400	3.800
DRILL STEM TESTING		
CEMENTING SERVICES		5.400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	5.200
GEOLOGICAL SUPERVISION		4.550
MISCELLANEOUS,		2.822
WELDING		700
FUEL	100	620
TOILET/SEPTIC SERVICE		200
WELL HEAD		2.050
TUBULARS, 7-3/8"		61.030
INSURANCE, well control		5.040
TOTALS	\$ 8,146	\$ 254,133

ENR& CORPORATION
4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-626-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 29, 1992

Depth 5,928' Drilling in Mesa Verde Formation

Geological: 1/ Cliffhouse 5,713' 1/ Menefee 5,796'

Progress: 118' feet in 7.73 hrs. drilling. trip one plugged bit 8 hr., trip two, ream 70' 8 hr., service 0.25: Drill string: 9-7/8" bit, shocksub, 3 3/4" DC w/ 6-5/8" reg. 12-7" DC w/ 6-1/2" reg. 5" 19.5# Gr.2 DP w/ 4-1/2" IF: Mud: Wt. 9.3#/gal. Vis. 41 sec., PV/YP 12/11, Gels 2/8, API WL 8.0 cc, Cals 1/32", Sand tr., Solids 7%, pH 9.0. Cl 400 mg/l. Ca 0 mg/l. Daily Mud Cost \$-0-, Cum Mud Cost \$9,704: Circulating pressure 1600 psi. Annular velocity: 8" collars 251'/min., drill pipe 116'/min. bottoms up 49 min., total circ. time 135 min.: Surveys: 1.5 degrees at 5926': Bit no. 5. 9-7/8" Smith F-2, SN KT9385. Jets 13/14/8. Depth in 5926' Drilling at 5928', made 118' in 7.73 hrs. ave. ROP 15'/hr. ave. wt. 60MH at 50 RPM, pump 1600psi: Pump: #1 GD PZ8 6.5" liner X 8" stroke 344 GPM at 100 GPM, #2 DFI 700 6.5" liner X 8" stroke 344 GPM at 100 GPM: Daily Cost \$63,350, Cumulative Cost \$245,987

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RD, RD		13,200
DRILLING RIG TIME	\$ 5,025	42,675
RENTAL EQUIPMENT		
DRILL BITS		20,580
DRILLING MUD AND CHEM	-0-	9,704
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	3,370
WATER	500	9,330
WELL BORE EVALUATION		
MUD LOGGING	400	3,400
DRILL STEM TESTING		
CEMENTING SERVICES		3,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		500
ENGINEERING SUPERVISION		4,550
GEOLOGICAL SUPERVISION	650	1,550
MISCELLANEOUS.		2,822
WELDING		700
FUEL	100	520
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS, 7-3/8"	36,000	61,950
INSURANCE, well control		5,040
TOTALS	\$ 63,350	\$ 245,987

Enke CORPORATION
4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 20 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 28, 1992

Depth 5,810' Drilling in Lewis shale

Progress: 437' feet in 22.5 hrs. drilling. trip 0.25 hr., survey 0.75 hr., service 0.5; Drill string: 9-7/8" bit, shocksub. 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 9.2#/gal. Vis. 30 sec., PV/YP 21/16. Gels 3/11. API WL 6.4 ccs. Cake 1/32", Sand tr., Solids 6%, pH 9.5, Cl 400 mg/l, Ca 0 mg/l. Daily Mud Cost \$610. Cum Mud Cost \$9,704; Circulating pressure 1750 psi. Annular velocity: 8" collars 251'/min., drill pipe 116'/min. bottoms up 48 min., total circ. time 135 min.; Surveys: 1.5 degrees at 5795'; Bit no. 4. 9-7/8" Smith F-2. SN KT9382. Jets: 13/13/8, depth in 3848', out at 5826', made 1978' in 102.25 hrs., ave. ROP 19'/hr.; Pump 1750 psi. Bit no. 5. 9-7/8" Smith F-2. SN KT9383. Jets 13/14/8. Depth in 5826'. TIH: Pump: #1 60 PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$14,275. Cumulative Cost \$182,637

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN. RU. RD		13,200
DRILLING RIG TIME	5,025	42,675
RENTAL EQUIPMENT		
DRILL BITS	6,140	20,580
DRILLING MUD AND CHEM	610	9,704
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	2,995
WATER	975	6,730
WELL BORE EVALUATION		
MUD LOGGING	400	3,000
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	4,550
GEOLOGICAL SUPERVISION		3,900
MISCELLANEOUS,		2,822
WELDING		700
FUEL	100	420
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,350
INSURANCE. well control		5,040
TOTALS	\$ 14,275	\$ 182,637

DAILY DRILLING REPORT

JICARILLA 288-1
 455' FNL. 1310' FEL
 NW/4 NE/4 SEC 28 T27N R2W PM N.M.
 RIO ARriba COUNTY, NEW MEXICO
 CONTRACT 701-90-0001

October 27, 1992 Clear mild day, cool night

Depth 5,373' Drilling in Lewis shale

Progress: 334' feet in 23 hrs. drilling, 1.25 hrs. survey, service 0.25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 9.1#s/gal, Visc. 33 sec., PV/YP 17/14, Gels 4/11, API WL 5.6 ccs. Cake 1/32", Sand tr., Solids 5%, pH 8.8, Cl 400 mg/l, Ca 40 mg/l. Daily Mud Cost \$1100, Cumu Mud Cost \$9,094; Circulating pressure 1850 psi. Annular velocity: 8" collars 246'/min., drill pipe 114'/min., bottoms up 38 min., total circ. time 110 min.; Surveys: 1 degrees at 5110'; Bit no. 4, 9-7/8" Smith F-2, SN KT9392, Jets: 13/13/8. depth in 2848', drilling at 5337', made 1489' in 81.75 hrs., ave. ROP 18'/hr.; Pump 1850 psi; Pumps: #1 50 PZB 6.3" liner X 8" stroke 344 GPM at 100 SPH, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPH; Daily Cost \$7,970, Cumulative Cost \$168,362

DAILY DRILLING COST ACCOUNTING:

DAILY

CUMMULATIVE

PERMIT AND STAKE		\$ 13,000
LOCATION & ROAD		24,700
RIG MOVE IN, RD. RD		13,200
DRILLING RIG TIME	3,025	37,650
RENTAL EQUIPMENT		
DRILL BITS		14,440
DRILLING MUD AND CHEM	1,100	9,094
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	2,620
WATER	320	7,755
WELL BORE EVALUATION		
MUD LOGGING	400	2,600
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	3,900
GEOLOGICAL SUPERVISION		3,900
MISCELLANEOUS.		2,622
WELDING		700
FUEL	100	320
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		3,050
INSURANCE, well control		5,040
TOTALS	\$ 7,970	\$ 168,362

Enra CORPORATION
4940 BROADWAY
SAN ANTONIO, TEXAS 78207
phone 512-326-0681

DAILY DRILLING REPORT

JICARILLA 288-1
453' FNL, 1510' FEL
NW/4 NE/4 SEC 26 127N R2W PH N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 26, 1992 Partly cloudy cool day, shower during cool night

Depth 5039' Drilling in Lewis shale

Mudlogger reports 3500, show 4986'-88', 1150, show 4918' 24' BGG 300, CG 300.

Progress: 429' feet in 22.5 hrs. drilling, 1.25 hrs. survey, service 0.25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 3" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 9.1#/gal, Vis. 50 sec., PV/YP 17/14, Gels 4/11, API WL 3.3 ccs, Cake 1/32", Sand tr., Solids 3%, pH 8.8, Cl 400 mg/l, Ca 40 mg/l, Daily Mud Cost \$496, Cum Mud Cost \$7994; Circulating pressure 1650 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min, Bottoms up 38 min., total circ. time 110 min.; Surveys: 1.5 degrees at 4746'; Bit no. 4, 9-7/8" Smith F-2, SN KY9382, Jater 13/13/6, depth in 3848', drilling at 5039', made 1191' in 58.75 hrs., ave. ROP 20'/hr.; Pump 1650 psi; Pump: #1 CD PZ8 6.5" liner x 8" stroke 344 GPM at 100 SPH, #2 OPI 700 6.5" liner x 8" stroke 344 GPM at 100 SPH; Daily Cost \$7,046, Cumulative Cost \$160,392

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	5.025	32,620
RENTAL EQUIPMENT		
DRILL BITS		14,440
DRILLING MUD AND CHEM	496	7,994
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	2,245
WATER		7,435
WELL BORE EVALUATION		
MUD LOGGING	400	2,200
DRILL STEM TESTING		
CEMENTING SERVICES		3,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		3,250
GEOLOGICAL SUPERVISION	650	3,900
MISCELLANEOUS,		2,822
WELDING		700
FUEL	100	220
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 7,046	\$ 160,392

EnRe CORPORATION
 3940 BROADWAY
 SAN ANTONIO, TEXAS 78209
 phone 512-823-0681

DAILY DRILLING REPORT

JICARILLA 288-1
 455' FNL, 1510' FEL
 NW/4 NE/4 SEC 28 T27N R2W PM N.M.
 RIO ARriba COUNTY, NEW MEXICO
 CONTRACT 701-90-0001

October 25, 1992 Cloudy cool day. rain during night

Depth 4,610' Drilling in Lewis shale

Progress: 310' Feet in 24 hrs. drilling, 0.5 survey, 0.25 pump repair, service 0.25;
 Drill string: 9-7/8" bit, shocksub, 3 8" DC w/ 6-5/8" reg. 12-7" DC w/ 5-1/2" reg. 5"
 17.5# Br.E DP w/ 4-1/2" IF; Mud: Wt. 8.9#/gal, Vis. 60 sec., PV/YP 20/19, Gels 8/12,
 API WL 6.4 ccs. Cake 1/32", Sand tr., Solids 4%, pH 9.0, Cl 400 mg/l, Ca 0 mg/l, Daily
 Mud Cost \$1,992, Cum Mud Cost \$7498; Circulating pressure 1550 psi, Annular velocity:
 6' collars 246'/min., drill pipe 114'/min. bottom up 35 min., total circ. time 105
 min.; Surveys: 1.5 degrees at 4308'; Bit no. 4, 9-7/8" Smith F-2, SN KT9382, Jets:
 13/13/8, depth in 3848', drilling at 4610', made 762' in 36.25 hrs., ave. ROP 21'/hr.;
 Pump 1550 psi; Pump: #1 GD P28 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 GPI 700
 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$8,472, Cumulative Cost
 \$153,346

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RD.		13,200
DRILLING RIG TIME	3,025	27,600
RENTAL EQUIPMENT		
DRILL BITS		14,440
DRILLING MUD AND CHEM	1,992	7,489
MUD TRANSPORTATION		1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	1,870
WATER		7,435
WELL BORE EVALUATION		
MUD LOGGING	400	1,800
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	3,250
GEOLOGICAL SUPERVISION		3,250
MISCELLANEOUS.		2,822
WELDING		700
FUEL	30	120
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 8,472	\$ 153,346

TOTAL P.02

OCT 25 '92 12:35

505 759 3663 215 PAGE.002

CHAS. CONSTRUCTION
4924 S. BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-226-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 26 T27N R2W PM N.M.
RIO ARRIAGA COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 24, 1992 Cloudy cool day, moderate mostly clear night

Depth 4,100' Drilling in Lewis shale

Mud logger reports: 90% shale and siltstone; 800 20-30u., 135u. show 3908'-18', 135 u. show 3952'-58', 425u. show 3970'-80'. all shows in Pictured Cliffs Sandstone; T/ Pictured Cliffs 3542'

Progress: 252' feet in 12.25 hrs. drilling, trip 8 hrs., circ., build mud volume & wash 95' to bottom 3.5 hrs., service 0.25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-3/8" reg. 12-7" DC w/ 5-1/2" reg, 3" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.9#/gal. Visc. 34 sec., PV/YP 12/13. Gels 7/11, API WL 7.5 ccs, Cake 2/32", Sand tr., Solids 4%, pH 8.0, Cl 400 mg/l, Ca 40 mg/l. Daily Mud Cost \$675, Comm Mud Cost \$5506; Circulating pressure 1550 psi. Annular velocity: 8" collar 246'/min., drill pipe 114'/min. bottoms up 32 min., total circ. time 105 min.; Surveys: 1.75 degrees at 3848'; Bit Record: Bit no. 3, 9-7/8" Smith F17, SN KB8336, Jets: 3-13, depth in 1628', out 3848', made 2.220' in 53 hrs., ave. ROP 48'/hr., bit no. 4, 9-7/8" Smith F-2, SN KT9382, Jets: 13/13/8, depth in 3848', drilling at 4100', made 202' in 12.25 hrs., ave. ROP 16.5'/hr.; Pump 1550 psi; Pump: #1 GD P28 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$9,511, Cumulative Cost \$144,874

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	3.025	27,600
RENTAL EQUIPMENT		
DRILL BITS		14,440
DRILLING MUD AND CHEM	675	5,506
MUD TRANSPORTATION	536	1,236
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	1,500
WATER	1,170	7,435
WELL BORE EVALUATION		
MUD LOGGING	400	1,400
DRILL STEM TESTING		
CEMENTING SERVICES		3,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	2,600
GEOLOGICAL SUPERVISION	650	3,250
MISCELLANEOUS,		2,822
WELDING		700
FUEL	30	90
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 9,511	\$ 144,874

4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

DAILY DRILLING REPORT

JICARILLA 288-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 22²³, 1992 Scattered heavy rain, moderate cloudy night with light showers

Depth 3848' Tripping out Bit #3 in Pictured Cliffs Formation
Mud logger reports: 70% sandstone, 30% shale; BGG 8-40u., 295u. show 3748'-52', 160 u. show 3809'-12'; T/ Djo Alamo 3162', T/ Fruitland 3478'; T/ Pictured Cliffs 3542'

Progress: 588' feet in 19 hrs. drilling, TOH bit #3 3.5 hrs. survey 1.25 hrs., service 0.25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.9#/gal, Vis. 50 sec., PV/YP 12/13, Gels 7/11, API WL 9.6 ccs, Cake 2/32", Sand tr., Solids 4%, pH 8.0, Cl 400 mg/l, Ca 40 mg/l, Daily Mud Cost \$2490, Comm Mud Cost \$4831; Circulating pressure 1550 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min. bottoms up 28 min., total circ. time 98 min.; Surveys: 1.5 degrees at 3403'; Bit Record: Bit no. 3, 9-7/8" Smith F17, SN K88336, Jets: 3-13, depth in 1628', out 3848', made 2,220' in 53 hrs., ave. ROP 48'/hr.; Pump 1550 psi; Pump: #1 GD PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 DPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$10,300, Cumulative Cost \$135,363

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	5,025	22,575
RENTAL EQUIPMENT		
DRILL BITS		14,440
DRILLING MUD AND CHEM	2,490	4,831
MUD TRANSPORTATION		700
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	1,125
WATER	930	6,265
WELL BORE EVALUATION		
MUD LOGGING	600	1,000
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		1,950
GEOLOGICAL SUPERVISION		2,600
MISCELLANEOUS, shaker screens	650	2,822
WELDING	200	700
FUEL	30	60
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 10,300	\$ 135,363

DAILY DRILLING REPORT

JICARILLA 28B-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

October 22, 1992 Scattered heavy rain, moderate night with scattered T storms
Depth 3260' Drilling sands and shales in Nacimiento
Lost circulation at 3256' in drilling break: lost 150 bbls., spotted 15 sx LCM, pull
6 stds, mix 20 sx. LCM pill, build pit volume, ran pipe to bottom, filled hole down
DP with pill, regained circulation.
Progress: 786' feet in 19.5 hrs. drilling, loss circ. 4 hrs. survey 0.25 hrs.,
service 0.25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/
5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 9.0 #/gal, Vis. 47 sec., PV/YP
11/19, Gels 4/9, API WL 6.4 ccs, Cake 1/32", Sand tr., Solids 5%, pH 9.0, Cl 400
mg/l, Ca 40 mg/l, Daily Mud Cost \$725, Cumm Mud Cost \$2341; Circulating pressure
1600 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min. bottoms up 21
min., total circ. time 89 min.; Surveys: 1.25 degrees at 2879'; Bit Record: Bit
no.2, 9-7/8" Smith FDT SN KS1254, Jets: 12/13/13, depth in 438', out at 1628', made
1190' in 21.5 hrs., ave. ROP 55'/hr. ave. wt. 45M# at 90 RPM Bit no. 3, 9-7/8"
Smith Fl7, SN KB8336, Jets: 3-13, depth in 1628', drilling at 3260', made 1632' in
34 hrs., ave. ROP 48'/hr.; Pump 1450 psi; Pump: #1 GD P28 6.5" liner X 8" stroke
344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost
\$9,190, Cumulative Cost \$125,063

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	5,025	22,575
RENTAL EQUIPMENT		14,440
DRILL BITS		2,341
DRILLING MUD AND CHEM	725	700
MUD TRANSPORTATION		
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	750
WATER	1,985	5,335
WELL BORE EVALUATION		
MUD LOGGING	400	400
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		600
RADIO EQUIPMENT RENTAL		1,950
ENGINEERING SUPERVISION	650	2,600
GEOLOGICAL SUPERVISION		2,172
MISCELLANEOUS, shaker screens		500
WELDING		60
FUEL	30	200
TOILET/SEPTIC SERVICE		2,050
WELL HEAD		5,050
TUBULARS		5,040
INSURANCE, well control		
TOTALS	\$ 9,190	\$ 125,063

DAILY DRILLING REPORT

JICARILLA 28B-1
 455' FNL, 1510' FEL
 NW/4 NE/4 SEC 28 T27N R2W PM N.M.
 RIO ARriba COUNTY, NEW MEXICO
 CONTRACT 701-90-0001

October 21, 1992

Depth 2474' Drilling sands and shales

Progress: 1,036' feet in 18 hrs. drilling, trip 4.5 hrs. (wash 50'), survey 1.25 hrs., service .25; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.9 #/gal, Vis. 45 sec., PV/YP 10/8, Gels 4/7, API WL 9.6 ccs, Cake 2/32", Sand tr., Solids 3%, pH 10, Cl 400 mg/l, Ca 0 mg/l, Daily Mud Cost \$800, Cumu Mud Cost \$1616; Circulating pressure 1650 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min. bottoms up 12 min., total circ. time 77 min.; Surveys: 1 degree at 1431', 1.25 degrees at 1931', 1 degree at 2440'; Bit Record: Bit no. 2, 9-7/8" Smith FDT SN KS1254, Jets: 12/13/13, depth in 438', out at 1628', made 1190' in 21.5 hrs., ave. ROP 55'/hr. ave. wt. 45M# at 90 RPM Bit no. 3, 9-7/8" Smith F17, SN KB8336, Jets: 3-13, depth in 1628', drilling at 2474', made 846' in 14.5 hrs., ave. ROP 58'/hr.; Pump 1450 psi; Pump: #1 GD PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$14,492, Cumulative Cost \$115,873

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	5,025	17,550
RENTAL EQUIPMENT		
DRILL BITS	6,440	14,440
DRILLING MUD AND CHEM	800	1,116
MUD TRANSPORTATION		700
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL	375	375
WATER		3,350
WELL BORE EVALUATION		
MUD LOGGING		
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION	650	1,950
GEOLOGICAL SUPERVISION		1,950
MISCELLANEOUS, shaker screens	1,172	2,172
WELDING		500
FUEL	30	30
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 14,492	\$ 115,873

DAILY DRILLING REPORT

JICARILLA 28B-1
 455' FNL, 1510' FEL
 NW/4 NE/4 SEC 28 T27N R2W PM N.M.
 RIO ABBIBA COUNTY, NEW MEXICO
 CONTRACT 701-90-0001

October 20, 1992

Depth 1438' Drilling sands and shales

Progress: 1,000' feet in 18.5 hrs. drilling, drill 85' cement 3.25 hrs., survey .25 hr., rig repair 1.25 hrs., test BOPs 0.5 hr., rig serv. 0.25 hr.; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 12-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.8 #/gal, Vis. 42 sec., PV/YP 9/6, Gels 3/6, API WL 8 ccs, Cake 1/32", Solids 3%, pH 13.5, Cl 400 mg/l, Ca 0 mg/l, Daily Mud Cost \$0, Cumm Mud Cost \$816; Circulating pressure 1650 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min. bottoms up 10 min., total circ. time 66 min.; Surveys: 3/4 degrees at 932'; Bit Record: Bit no. 1, 14-3/4" Smith DSJ, SN PA5752, Jets: 3-12, depth in surface, out at 438', made 438' in 10.5 hrs., ave. ROP 42'/hr. ave. wt. 20M# at 120 RPM, Bit no.2, 9-7/8" Smith FDT SN KS1254, Jets: 12/13/13, depth in 438', drilling at 1438', made 1000' in 18.5 hrs., ave. ROP 54'/hr. ave. wt. 30M# at 90 RPM; Pump 1650 psi; Pump: #1 GD P28 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$12,575, Cumulative Cost \$101,381

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMMULATIVE
PERMIT AND STAKE		\$ 15,000
LOCATION & ROAD		24,700
RIG MOVE IN, RU, RD		13,200
DRILLING RIG TIME	5,025	12,525
RENTAL EQUIPMENT		
DRILL BITS	4,500	8,000
DRILLING MUD AND CHEM		816
MUD TRANSPORTATION		700
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL		
WATER	1,700	3,350
WELL BORE EVALUATION		
MUD LOGGING		
DRILL STEM TESTING		
CEMENTING SERVICES		5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL		600
ENGINEERING SUPERVISION		1,300
GEOLOGICAL SUPERVISION	650	1,950
MISCELLANEOUS, cut trees, move trailer	700	1,000
WELDING		500
TOILET/SEPTIC SERVICE		200
WELL HEAD		2,050
TUBULARS		5,050
INSURANCE, well control		5,040
TOTALS	\$ 12,575	\$ 101,381

October 19, 1992

Depth 438' N.U. BOPs

Progress: 328' feet in 6 hrs. drilling, trip .75 hr., survey .25 hr., run csg 2.25 hrs., cement 1.25 hrs., WOC 6.5 hrs., NU BOP 6 hrs., test 1 BOP hr.; Drill string: 9-7/8" bit, shocksub, 3-8" DC w/ 6-5/8" reg, 13-7" DC w/ 5-1/2" reg, 5" 19.5# Gr.E DP w/ 4-1/2" IF; Mud: Wt. 8.9 #/gal, Vis. 39 sec., PV/YP 8/10, Gels 3/6, API WL 10 ccs, Cake 1/32", Solids 3%, pH 9.0, Cl 400 mg/l, Ca 40 mg/l, drill out mud moved from well 24N-1, Daily Mud Cost \$816, Cumm Mud Cost \$816; Circulating pressure 1400 psi, Annular velocity: 8" collars 246'/min., drill pipe 114'/min. bottoms up 10 min., total circ. time 40 min.; Surveys: 1/4 degrees at 201', 3/4 degrees at 438'; Bit Record: Bit no. 1, 14-3/4" Smith DSJ, SN PA5752, Jets: 3-12, depth in surface, out at 438', made 438' in 10.5 hrs., ave. ROP 42'/hr ave. wt. 20M# at 120 RPM Pump 1000 psi; Pump: #1 GD PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM; Daily Cost \$88,806, Cumulative Cost \$88,806

DAILY DRILLING COST ACCOUNTING:	DAILY	CUMMULATIVE
PERMIT AND STAKE	\$ 15,000	\$ 15,000
LOCATION & ROAD	24,700	24,700
RIG MOVE IN, RU, RD	13,200	13,200
DRILLING RIG TIME	7,500	7,500
RENTAL EQUIPMENT		
DRILL BITS	3,500	3,500
DRILLING MUD AND CHEM	816	816
MUD TRANSPORTATION	700	700
CONTRACT ENGINEERING SERVICE		
MUD EQUIPMENT RENTAL		
WATER	1,650	1,650
WELL BORE EVALUATION		
MUD LOGGING		
DRILL STEM TESTING		
CEMENTING SERVICES	5,400	5,400
EXTRAORDINARY SERVICES		
RADIO EQUIPMENT RENTAL	600	600
ENGINEERING SUPERVISION	1,300	1,300
GEOLOGICAL SUPERVISION	1,300	1,300
MISCELLANEOUS, trash bin	300	300
WELDING	500	500
TOILET/SEPTIC SERVICE	200	200
WELL HEAD	2,050	2,050
TUBULARS	5,050	5,050
INSURANCE, well control	5,040	5,040
TOTALS	\$ 88,806	\$ 88,806

10-19-1992 04:48PM FROM PETROREY, INC/J.H. ASHFORD TO
ENKE CORPORATION
4940 BROADWAY
SAN ANTONIO, TEXAS 78209
phone 512-826-0681

P.03

DAILY DRILLING REPORT

JICARILLA 28B-1
455' FNL, 1510' FEL
NW/4 NE/4 SEC 28 T27N R2W PM N.M.
RIO ARriba COUNTY, NEW MEXICO
CONTRACT 701-90-0001

Drilling Contractor: Big A Well Service, P. O. Drawer 3337, 708 Tucker, Farmington, New Mexico, Phone 505-327-4961, contacts: John Richardson, Drilling Superintendent; Donnie Keenom, Assist. Sup't; Charlie McClain, Rig Pusher; Night radio contact 505-325-6892 Unit 134

Engineering supervisor: J. Harvey Ashford, Jr. radio contact 505-325-1873 unit 2892

Geological supervisor: Don Urbanec radio contact 505-325-1873 unit 2978

Fax and phone answerer at room 215 Jicarilla Inn, Dulce, N.M. 505-759-3663

October 16, 1992 Cloudy cool day, cool night
Move in Big A Well Service Rig No. 34: Dynamic 127' 450,000 lb. hook load capacity; 15' high box on box substructure, 450,000 lb. casing capacity; N-46 Skytop Brewster drawworks with 2 each 12-V71T Detroit Engines; Mud pumps #1 PZ8 w/ Cat D-398-T Engine, #2 OPI 700 HDL Triplex w/ Cat D-379-TA; 1 250 KVA generator and 1 275 KVA generator. Drill pipe 5" with 7" and 8" drill collars.

7AM DRILLING REPORT OF PREVIOUS 24 HOURS ACTIVITY

October 18, 1992

Depth: 110' Drilling 14-3/4" surface hole

Rigged up with two crews and pusher, location not level, worked on location with blade to level, drilled rat and mouse hole, spudded 14-3/4" surface hole in hard sandstone ledge rock at 3:30 AM 10/18/92

Progress: 110' in 4.5 hrs. drilling, drill rat and mouse hole 2.5 hrs., pick up bottom hole assembly 2 hrs., mix spud mud 2 hrs., rig up 13 hrs. Drill string: 14-3/4" bit, bit sub, 3-8" drill collars; Mud: Spud Mud; Survey: straight; Pump: #1 GD PZ8 6.5" liner X 8" stroke 344 GPM at 100 SPM, #2 OPI 700 6.5" liner X 8" stroke 344 GPM at 100 SPM.