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OIL & GAS CONS. COMM

# RAMAS INC

CONSULTING PETROLEUM GEOLC

2060 Colorado State Bank Building  
1600 Broadway  
Denver, Colorado 80202  
(303) 832-3114

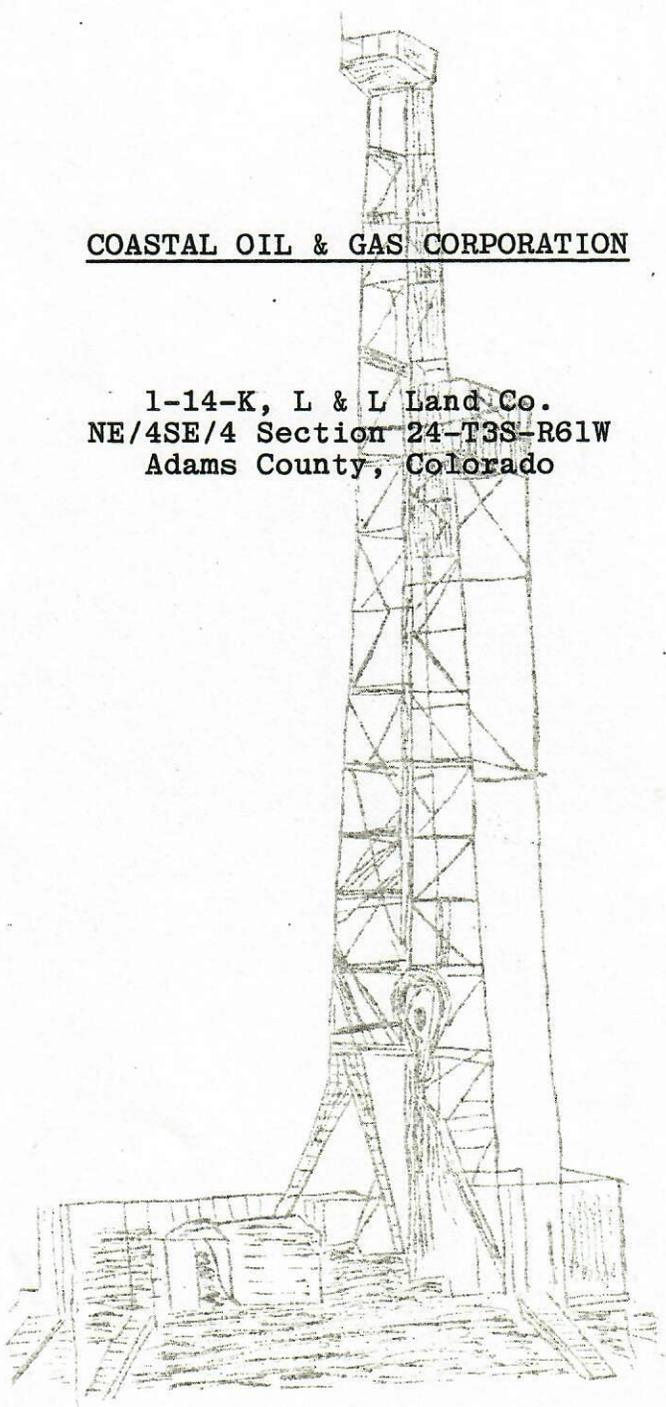


ROBERT M. VEAL  
Home: (303) 452-5003

TERRY E. EITREIM  
Home: (303) 863-9085

## COASTAL OIL & GAS CORPORATION

1-14-K, L & L Land Co.  
NE/4SE/4 Section 24-T3S-R61W  
Adams County, Colorado



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Coastal Oil & Gas Co.  
1-14-K, L & L Land Co.  
NE/4SE/4 Section 24-T3S-R61W  
Adams County, Colorado

OPERATOR: Coastal Oil & Gas Corporation

WELL NAME: 1-24-K, L & L Land Co.

LOCATION: NE/4SE/4 Section 24-T3S-R61W  
1980' FSL and 660' FEL  
Adams County, Colorado

ELEVATION: 5070' GR  
5080' KB

SPUD DATE: August 18, 1985

DATE COMPLETED DRILLING: August 26, 1985

STATUS: Plugged and Abandoned

HOLE SIZES: 7-7/8" from 2627' to 6725' (TD).

CASING: Surface: 8-5/8" set at 787'.

TOTAL DEPTH: 6725' Driller  
6735' Schlumberger

CONTRACTOR: Exeter Drilling - Denver, Colorado  
Rig No. 16  
Toolpusher: Lewis Gentry

COMPANY SUPERVISOR: Chuck Mowry - Coastal O & G - Denver, CO

GEOLOGIST: RAMAS INC. - Glenn E. Rayfield  
Client geologist's name: Don Teason

MUD LOGGING: None

MUD: H & W Drilling Fluids, Inc. - Denver, CO  
Engineer: Ted Frisbie  
Type mud used: Chem Gel

SAMPLES: 30' samples from surface to 5750'.  
20' samples from 5750' to 6440'.  
10' samples from 6440' to 6725' (TD).

Samples were deposited with Anderson Strati-  
graphic - 385 South Zuni - Denver, Colorado.

SEP 12 1985

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DST'S: DST No. 1 - 6644'-6735' - J-2 Sand -  
 Halliburton - Gillette, WY - Tech: Leger

CORES: None

ELECTRIC LOGS: Schlumberger - Fort Morgan, Colorado  
 Engineer: Dennis Haugen

Dual Induction-SFL	787'-6729'
Compensated Neutron/ Litho Density	5600'-6718'
WFD	6400'-6718'
Lithology Cyberlook	6500'-6700'

FORMATION TOPS:	<u>NAME</u>	<u>DEPTH</u>	<u>DATUM</u>
	Niobrara	5722'	(_ 642')
	Fort Hays	6106'	(-1026')
	Carlile	6142'	(-1062')
	Greenhorn	6212'	(-1132')
	"D" Silt	6536'	(-1456')
	"D" Sand	6544'	(-1464')
	J-1 Sand	6614'	(-1534')
	J-2 Sand	6636'	(-1556')
	Total Depth	6735'	(-1655')

SEP 12 1985

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BIT RECORD

<u>NUMBER</u>	<u>SIZE</u>	<u>TYPE</u>	<u>MAKE</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>
1	7-7/8"	R-1	HTC	2627'	1834'	16 1/4
2	" "	J-1	HTC	6089'	3462'	46
3	" "	J-2	HTC	6569'	480'	14
4	" "	J-22	HTC	6725'	156'	14

SURVEYS

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
319'	3/4°	4625'	1 1/2°
630'	3/4°	5124'	1-3/4°
1253'	3/4°	5622'	1 1/2°
2627'	3/4°	6089'	1 1/4°
3625'	3/4°	6569'	3/4°
4176'	3/4°	6725'	1 1/4°

SAMPLE LITHOLOGY

5700'-5722'

SHALE: light-medium grey, subplaty-subblocky, slightly firm, slightly calcareous, benthonic, interbedded with BENTONITE: light grey, subfissile, soft, yellow mineral fluorescence.

5722'

(-642') NIOBRARA

5722'-5740'

SHALE: medium-light grey, blocky, firm, very calcareous, abundant white calcareous inclusions, trace calcite fracture infilling.

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Adams County, Colorado

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Page 4

SEP 12 1985

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5740'-5765'

SHALE: as above, with stringers of LIME-  
STONE: white, microcrystalline, blocky,  
firm-hard, chalky, very argillaceous, yellow  
mineral fluorescence.

5765'-5800'

SHALE: medium-light grey, blocky, firm,  
very calcareous, abundant white calcareous  
inclusions.

5800'-5850'

SHALE: medium-light grey, blocky-subblocky,  
firm, very calcareous, occasional white  
calcareous inclusions, bentonitic in part,  
trace disseminated PYRITE.

5850'-5970'

SHALE: medium-light grey, blocky, firm,  
very calcareous, abundant white calcareous  
inclusions, occasional fracture infilling.

5970'-6000'

SHALE: as above, with stringers of LIME-  
STONE: white, microcrystalline, hard,  
blocky, chalky, argillaceous, yellow  
mineral fluorescence.

6000'-6105'

SHALE: medium-light grey, blocky, firm,  
very calcareous, abundant white calcareous  
inclusions.

6106'

(-1026') FORT HAYS

6106'-6142'

LIMESTONE: white-cream, microcrystalline-  
cryptocrystalline, blocky, hard, chalky,  
argillaceous, yellow mineral fluorescence,  
no stain or cut.

6142'

(-1062') CARLILE

6142'-6150'

SILTSTONE: light grey, subblocky, firm,  
calcareous, argillaceous.

6150'-6212'

SHALE: medium-dark grey, subplaty-subblocky,  
slightly firm, noncalcareous, silty in  
part, trace disseminated PYRITE.

6212'

(-1132') GREENHORN

SEP 12 1985

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Coastal Oil & Gas Co.  
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6212'-6230' SHALE: medium-dark grey, blocky, firm, calcareous, chalky, trace LIMESTONE: light grey, subblocky, firm, chalky, very argillaceous.

6230'-6285' LIMESTONE: white-light brown, microcrystalline-cryptocrystalline, blocky, hard, chalky in part, moderately-very argillaceous, occasional yellow mineral fluorescence.

6285'-6360' SHALE: dark-medium grey, blocky, firm, calcareous, bentonitic in part, trace BENTONITE: white-light grey, subfissile, soft, yellow mineral fluorescence.

6360'-6408' LIMESTONE: as above, interbedded with SHALE: as above.

6408'-6412' BENTONITE: light grey, white, subfissile, soft, white-yellow mineral fluorescence.

6412'-6450' SHALE: dark grey, blocky-subblocky, firm, calcareous, bentonitic, with stringers of BENTONITE: as above.

6450'-6520' SHALE: dark grey, subplaty, slightly firm, noncalcareous, bentonitic, trace disseminated PYRITE.

6520'-6536' BENTONITE: light grey-white, subfissile, soft, yellow mineral fluorescence, interbedded with SHALE: as above.

6536' (-1456') "D" SILT

6536'-6544' SILTSTONE: light grey, subblocky, firm, noncalcareous, arenaceous, with stringers of SANDSTONE: white-light grey, very fine grained, angular, well sorted, well cemented, siliceous cement, clay filled, no-poor visible porosity, no stain, cut or fluorescence.

6544' (-1464') "D" SAND

Coastal Oil & Gas Co.  
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NE/4SE/4 Section 24-T3S-R61W  
Adams County, Colorado

Page 6  
RECEIVED

SEP 12 1985

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6544'-6560'

SANDSTONE: clear-white, very fine-fine grained, subangular-angular, well sorted, well-moderately cemented, siliceous cement, clay filled in part, friable in part, poor-fair porosity, trace (1%) dead oil stain, no fluorescence, or cut.

NOTE: CIRCULATED SAMPLES at 6562' (adjusted to logs).

6560'-6594'

SHALE: dark-medium grey, blocky, firm, non-slightly calcareous, silty in part, trace disseminated PYRITE.

6594'-6610'

SILTSTONE: light-medium grey, subblocky, firm, slightly calcareous, very arenaceous.

6610'-6614'

SHALE: dark-medium grey, subblocky, firm, slightly calcareous, silty.

6614'

(-1534') "J-1" SANDSTONE

6614'-6618'

SANDSTONE: clear-white, very fine-fine grained, subangular, moderately-poorly cemented, siliceous cement, fair-good visible porosity, trace (1%) dead oil stain, no fluorescence or cut, glauconitic in part.

6618'-6636'

SHALE: medium grey, blocky, firm, noncalcareous, silty, interbedded with SILTSTONE: medium grey, subblocky, firm, noncalcareous, arenaceous.

6636'

(-1556') "J-2" SANDSTONE

6636'-6644'

SANDSTONE: clear-white, fine grained, subangular-subrounded, well sorted, moderately-poorly cemented, siliceous cement, friable, fair-good porosity, trace (1%) dead oil stain, trace (1%) very faint, light yellow fluorescence, no cut.

6644'-6647'

SHALE: as above.

NOTE: CIRCULATED SAMPLES AT 6648' (adjusted to logs).

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Coastal Oil & Gas Co.  
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 Adams County, Colorado

6647'-6652'

SANDSTONE: clear-white, fine grained, subangular-subrounded, well sorted, moderately cemented, siliceous cement, friable, fair-good porosity, trace dead (1%) oil stain, no fluorescence or cut.

6652'-6660'

SANDSTONE: white-clear, fine grained-very fine grained, subangular, moderately-well cemented, clay filled in part, fair-poor visible porosity, no stain, cut or fluorescence.

6660'-6700'

SILTSTONE: medium-light grey, subblocky, firm, noncalcareous, argillaceous, interbedded with SHALE: dark grey, subblocky, firm, noncalcareous, silty, trace SANDSTONE: white-light grey, very fine grained, angular, well cemented, clay filled, poor porosity, no stain, cut or fluorescence.

6700'-6735'

SHALE: dark-medium grey, fissile-subplaty, slightly firm, slightly silty in part, noncalcareous, trace bentonitic.

6735'

(-1655') TOTAL DEPTH

NOTE: After running E-Logs, a conventional DST was run from 6644'-6735' (E-Logs).

DST NO. 1 - "J-2" SAND - 6634'-6725'

Interval corrected to E-Logs: 6644'-6735'

Testing Company: Halliburton  
 Testers Name: Bill Leger  
 Type of Test: Conventional

Top packer depth: 6644'.  
 Mud weight: 9.5+  
 Viscosity: 70  
 Rw pit mud: 2.2 at 88° F, 1800 ppm  
 Rw make up water: 7.0 at 88° F = 575 ppm  
 Cushion: None

SEP 12 1985

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DST NO. 1 - CONTINUED

- IO: 5 minutes - tool opened with 3½" blow, in one minute increased to 5", in 2 minutes 8", in 3 minutes 11", in 5 minutes, increased to bottom of bucket.
- ISI: 60 minutes - bottom of bucket blow throughout period.
- FO: 125 minutes - see attached sheet.
- FSI: 182 minutes - shut in with 12 PSI on ¼" plate. Slowly decreased to 0 by 120 minutes into period.

RECOVERY:

Pipe: 3144' total recovery. 360' gas cut mud. 2784' slightly gas cut water.  
 Rw top 1.8 at 92° F = 2500 ppm;  
 Rw middle .36 at 90° F = 13,000 ppm.  
 Rw bottom .36 at 90° F = 13,000 ppm.

Sample chamber: 2150 cc's total fluid recovery at 1100 PSI. 2.9 cubic feet gas. 2150 cc's water.  
 Rw sample chamber: .36 at 90° F = 13,000 ppm.

RECORDERS:

	<u>TOP</u>	<u>MIDDLE</u>	<u>BOTTOM</u>
DEPTH:	6621'	6626'	6731'
IHP:	3434	3405	3499
IF:	161-258	160-256	189-297
ISIP:	1837	1832	1912
FF:	307-1250	336-1308	378-1375
FSIP:	1852	1848	1885
FHP:	3403	3373	3445

Bottom Hole Temperature: 176° F.

SEP 12 1985

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DST NO. 1 - CONTINUED

FINAL OPEN: 125 minutes

<u>MINUTES</u>	<u>CHOKE SIZE</u>	<u>SURF. PRESS.</u> <u>(PSI)</u>	<u>GAS RATE</u> <u>MCF/D</u>	<u>REMARKS</u>
1				1/2 PSI on bubble hose.
2				1 PSI
6				2 PSI
9				3 PSI
13				4 PSI
15				5 PSI
16				6 PSI
17				7 PSI
19				8 PSI
21				10 PSI
22				11PSI
24				12 PSI
26				14 PSI
28				16 PSI
30				17 PSI
33				20 PSI
35				22 PSI
37				24 PSI
38				26 PSI
40				28 PSI
41				30 PSI
42				32 PSI
44				34 PSI
46				38 PSI
50				43 PSI
53				47 PSI
56				50 PSI
60				55 PSI
64	3/8"	50		open to separator
66	3/8"	45		gas to surface
73	3/8"	22		
77	3/8"	13		
85	1/4"			install orifice tester
90	1/4"	8	27	2/ 1/4" slot
100	1/4"	11	32	
105	1/4"	12	34	
110	1/4"	12	34	
115	1/4"	12	34	
120	1/4"	12	34	
125	1/4"	12	34	close tool