

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>		5. Lease Designation and Serial No. ML-22265
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name N/A
b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator Coastal Oil & Gas Corporation		8. Farm or Lease Name Morgan State
3. Address of Operator P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455		9. Well No. #4-36
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1912' FSL & 649' FWL At proposed prod. zone <sup>682</sup> 197		10. Field and Pool, or Wildcat Natural Buttes Field
14. Distance in miles and direction from nearest town or post office* Approximately 48 miles south of Vernal, Utah.		11. Co. Sec., T., R., S., or 6th. and Survey or Area NW/SW Sec. 36-T9S-R21E
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any) 649'	16. No. of acres in lease 639.20 (Sec. 36)	17. No. of acres assigned to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. Approx. 1600'	19. Proposed depth 9,450'	20. Rotary or cable tools Rotary
21. Elevations (Show whether DF, RT, GR, etc.) 5029' Ungraded GR	22. Approx. date work will start* Upon Approval	
<b>23. PROPOSED CASING AND CEMENTING PROGRAM</b>		
Size of Hole	Size of Casing	Weight per Foot
Setting Depth	Quantity of Cement	
Please see attached drilling program.		

Coastal Oil & Gas Corporation proposes to drill a well to a proposed TD of 9,450' to test the Mesaverde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per State of Utah requirements.

See the Drilling Program and Multi-point Surface Use & Operations Plan, attached.

Coastal Oil & Gas Corporation is considered to be the operator of the subject well. It agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided for by Coastal's Bond #102103.

JAN 16 1996

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.  
Signed: Sheila Bremer Title: Environmental & Safety Analyst Date: 1/12/96

(This space for Federal or State office use)

API NO. 43-0417-32729 Approval Date \_\_\_\_\_  
Approved by: [Signature] Title: Richard Engman Date: 2/9/96  
Conditions of approval, if any: \_\_\_\_\_

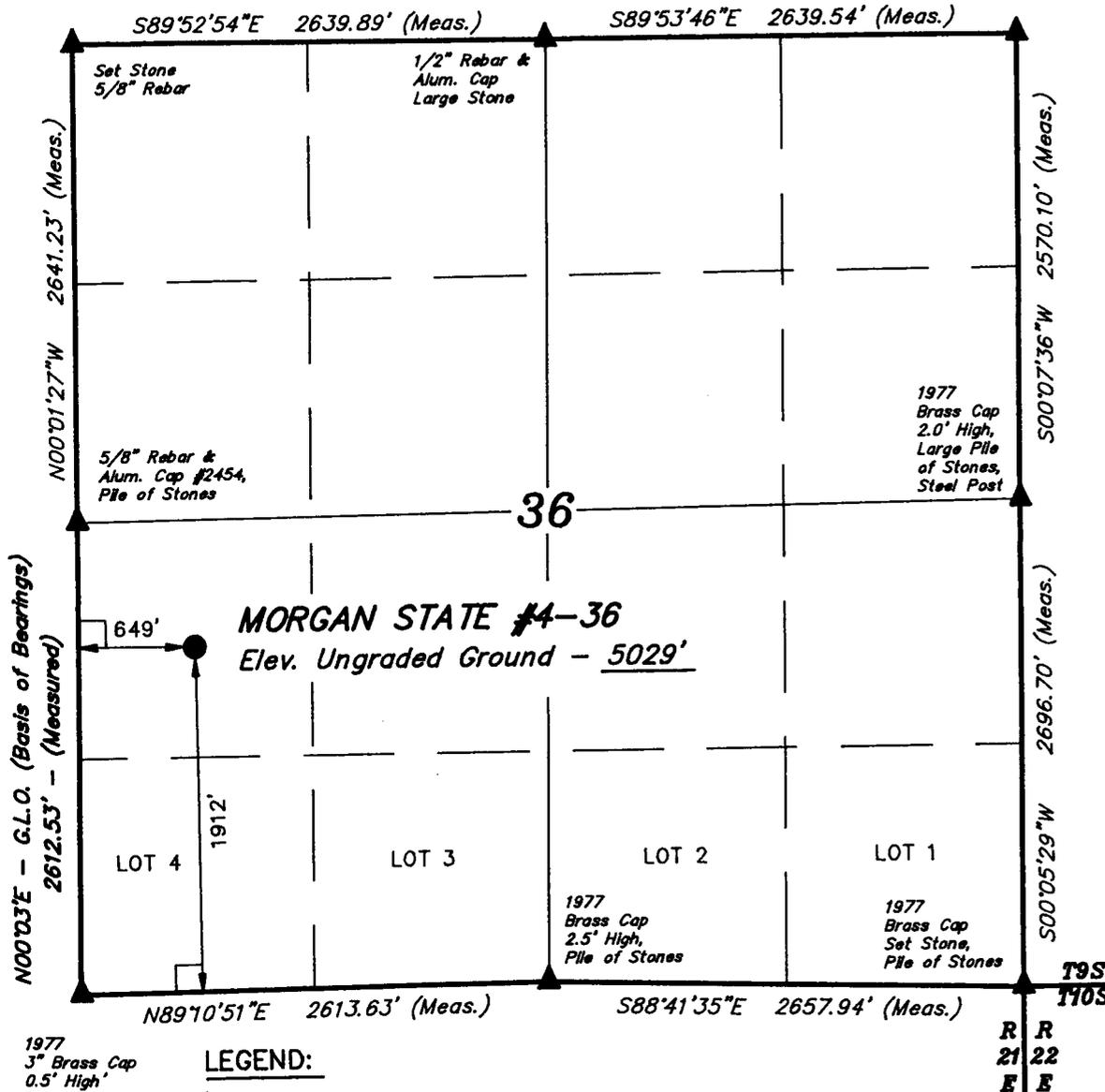
\*See Instructions On Reverse Side

T9S, R21E, S.L.B.&M.

**COASTAL OIL & GAS CORP.**

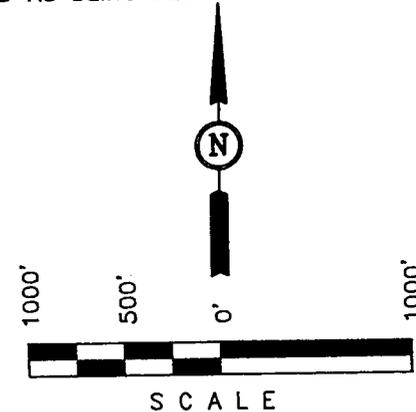
Well location, MORGAN STATE #4-36, located as shown in the NW 1/4 SW 1/4 of Section 36, T9S, R21E, S.L.B.&M., Uintah County, Utah.

1977  
3" Brass Cap  
0.5' High,  
Steel Post,  
Pile of Stones



**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 161319  
ROBERT L. ...  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

<p><b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017</p>		
SCALE 1" = 1000'	DATE SURVEYED: 1-3-96	DATE DRAWN: 1-4-96
PARTY L.D.T. B.D. D.R.B.		REFERENCES G.L.O. PLAT
WEATHER COLD		FILE COASTAL OIL & GAS CORP.

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

1977  
3" Brass Cap  
0.5' High  
Pile of Stones

R R  
21 22  
E E

**MORGAN STATE #4-36  
1912' FSL & 649' FWL  
NW/SW, SECTION 36-T9S-R21E  
UINTAH COUNTY, UTAH**

**COASTAL OIL & GAS CORPORATION**

***DRILLING PROGRAM***

The proposed wellsite is on **State of Utah surface/State of Utah minerals.**

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Duchesne River/Uinta	Surface
Wasatch	4,610'
Mesaverde	7,280'
Total Depth	9,450'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Wasatch	4,610'
	Mesaverde	7,280'
Gas	Wasatch	4,610'
	Mesaverde	7,280'
Water	N/A	
Other Minerals	N/A	

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. Oil and gas shows will be tested to determine commercial potential.

3. **Pressure Control Equipment:** (Schematic Attached)

Coastal Oil & Gas Corporation's minimum specifications for pressure control equipment are as follows:

- Ram type: 11" Annular Preventer (Hydril), 11" Double Gate Hydraulic, Drilling Spool, 5,000 psi.
- Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

- Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
- As a minimum, the above test will be performed when initially installed, whenever any seal subject to test pressure is broken, following related repairs, or at 30-day intervals.
- Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.
- When testing the kill line valve(s), the check valve shall be held open or the ball removed.
- Annular preventers (if used) shall be functionally operated at least weekly.
- Pipe and blind rams shall be activated each trip; however, this function need not be performed more than once a day.
- A BOPE pit level drill shall be conducted weekly for each drilling crew.
- Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

- The size and the rating of the BOP stack is shown on the attached diagram.
- A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

#### 4. **Proposed Casing and Cementing Program:**

- a. The proposed Casing Program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt/ft</u>	<u>Grade</u>	<u>Type</u>
Surface	0-2,500'	12-1/4"	8-5/8"	32#	K-55	ST&C
Production	0-TD	7-7/8"	5-1/2"	17#	N-80	LT&C

Casing design is subject to revision based on geologic conditions encountered.

- b. The Cement Program will be as follows:

<u>Surface</u>	<u>Fill</u>	<u>Type &amp; Amount</u>
0-2,500'	1,400' 1,100'	Lead: 500 sx Lite cement, 12 ppg, 2.06 ft. <sup>3</sup> /sx. Tail: 600 sx Premium, 15.6 ppg, 1.19 ft. <sup>3</sup> /sx.
<u>Production</u>	<u>Fill</u>	<u>Type &amp; Amount</u>
2,500'-4,000'	1,500'	Lead: Approx. 85 sx "Hi lift" Class "G" w/12% gel & 2% extender, yield 3.9 ft. <sup>3</sup> /sx, 11 ppg (325 ft. <sup>3</sup> total).
4,000'-TD	5,450'	Tail: Approx. 730 sx (1170 ft. <sup>3</sup> ) "Self-Stress II" Class "G" w/10% Gypsum, 1.61 yield, 14.2 ppg.

5. **Drilling Fluids Program:**

a.	<u>Interval</u>	<u>Type</u>	<u>Mud Wt.</u>
	0-7,000'	Air Mist/Aerated Water	
	7,000'-TD	LSND to Lightly Dispersed Mud	8.8-10

- b. No chromate additives will be used in the mud system without prior approval to ensure adequate protection of fresh water aquifers.

6. **Evaluation Program:**

- a. Logging Program:

DIL-SP-GR-Neutron-Density-Sonic:	2500'-TD
2 Man Mud Logging:	2500'-TD
Drill Stem Tests:	None anticipated.
Cores:	20 sidewalls planned in Mesaverde.

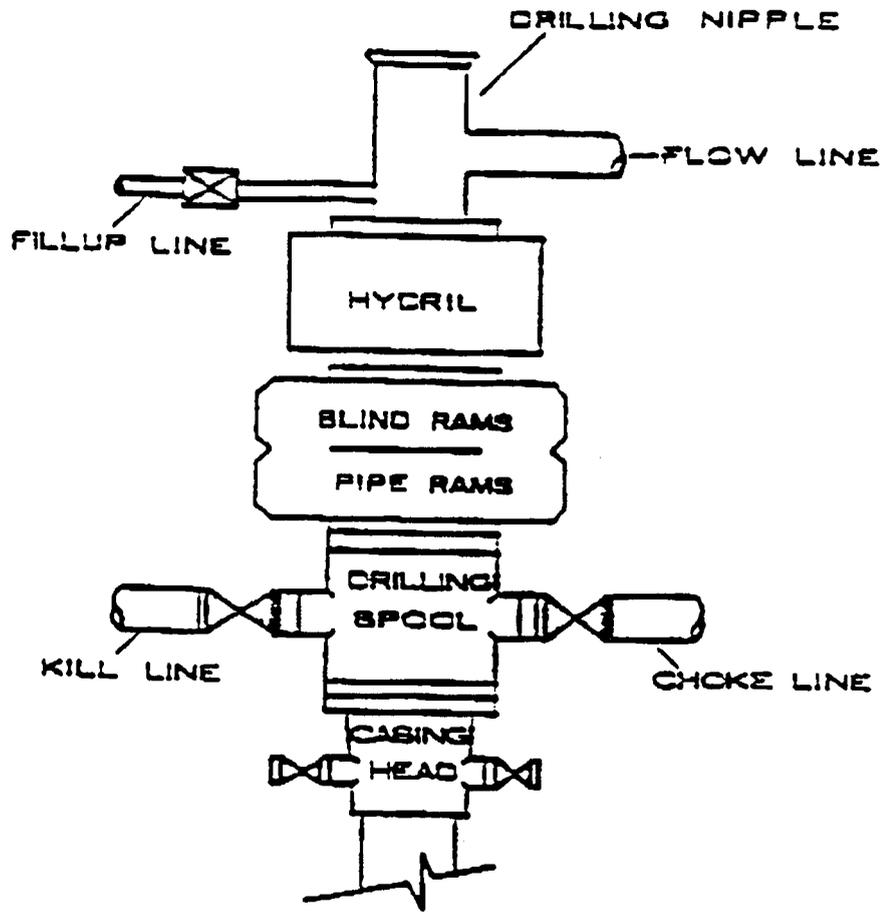
The Evaluation Program may change at the discretion of the well site geologist.

- b. No drill stem tests, stimulation, or frac treatment has been formulated for this well at this time; however, the drill site, as approved, will be of sufficient size to accommodate all completion activities. Any frac treatment program specifics will be submitted via sundry notices.

7. **Abnormal Conditions:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered in or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure approximately equals 3,780 psi (calculated at 0.4 psi/foot) and maximum anticipated surface pressure equals approximately 1,701 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

# EOP STACK



5,000 PSI

**MORGAN STATE #4-36  
1912' FSL & 649' FWL  
NW/SW, SECTION 36-T9S-R21E  
UINTAH COUNTY, UTAH**

**COASTAL OIL & GAS CORPORATION**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

*This Surface Use and Operations Plan is subject to change pending completion of the on-site inspection.*

1. **Existing Roads:**

The proposed wellsite is approximately 48.9 miles south of Vernal, Utah.

Directions to the location from Vernal, Utah, are:

Proceed westerly from Vernal on U.S. Highway 40 approximately 14.0 miles to the junction of State Highway 88, exit left and proceed south approximately 17.0 miles on State Highway 88 to Ouray, Utah; proceed south from Ouray approximately 6.9 miles on the Seep Ridge Road to the junction of this road and an existing oil field service road to the east; turn left and proceed in an easterly direction approximately 5.0 miles to the junction of this road and an existing road to the north; turn left and proceed in a northerly direction approximately 0.3 miles to the junction of this road and an existing road to the northeast; turn right and proceed in a northeasterly direction approximately 3.9 miles to the junction of this road and an existing road to the southeast; turn right and proceed in a southeasterly direction approximately 1.8 miles to the beginning of the proposed access road; follow road flags in a southerly direction approximately 200' to the proposed location.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

***Improvements to existing access roads shall be determined at the on-site inspection.***

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 200' of new access will be required. The new access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet, ***unless modified at the on-site inspection.*** Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities shall be determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius:** (See Map C)

- a. Water wells - 0
- b. Producing wells - 14
- c. Drilling wells - 0
- d. Shut-in wells - 0
- e. Temporarily abandoned wells - 0
- f. Disposal wells - 0
- g. Abandoned wells - 0
- h. Injection wells - 0

4. **Location of Existing and Proposed Facilities:**

The following guidelines will apply if the well is productive.

- a. All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.
- b. A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.
- c. All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Desert Brown, Munsell standard color number 10 YR 6/3.

- d. Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.
- e. The proposed pipeline will leave the well pad in a northerly direction for an approximate distance of 60' to tie into an existing pipeline. Please see Map D.

5. **Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Section 32-T4S-R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. **Methods of Handling Waste Materials:**

- a. Drill cuttings will be contained and buried in the reserve pit.
- b. Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.
- c. The reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids. *The need for a reserve pit liner will be determined at the on-site inspection.*

If a plastic reinforced liner is used, it will be a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

- d. Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.
- e. A chemical porta-toilet will be furnished with the drilling rig.
- f. Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.
- g. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

- h. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning

quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). *This section is subject to modification as a result of the on-site inspection.*

See the attached diagram to describe rig orientation, parking areas, and access roads.

- a. The reserve pit will be located on the west side of the location.
- b. The stockpiled topsoil (first six inches) will be stored on the west side of the location. All brush removed from the well pad during construction will be stockpiled separately from the topsoil.
- c. The flare pit will be located on the west side of the location, downwind from the prevailing wind direction and a minimum of 100 feet from the wellhead and 30 feet from the reserve pit fence.
- d. Access will be from the north.
- e. All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

- f. The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

**10. Plans for Reclamation of the Surface:****a. Producing Location:**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

If a plastic, nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

**b. Dry Hole/Abandoned Location:**

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface Ownership:****a. Access Roads - The proposed access road is located on lands owned by:**

- State of Utah, Division of State Lands & Forestry

- b. Well Pad - The well is located on land owned by:
- State of Utah, Division of State Lands & Forestry  
3 Triad Center, #400  
Salt Lake City, Utah 84180-1204

12. **Other Information:**

- a. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.
- b. The Operator will control noxious weeds along right-of-ways for roads, pipelines, well sites, or other applicable facilities.
- c. A Class III archeological survey was conducted by Metcalf Archaeological Consultants, Inc. A copy of this report is attached. This report was also sent directly to the Utah Preservation Office, Division of History, Salt Lake City, and Kenneth Wintch, Utah State Lands, Salt Lake City, by Metcalf Archaeological Consultants.

13. **Lessee's or Operators's Representative and Certification:**

Sheila Bremer  
Environmental & Safety Analyst  
Coastal Oil & Gas Corporation  
P.O. Box 749  
Denver, CO 80201-0749  
(303) 573-4455

Ned Shiflett  
Drilling Manager  
(713) 877-6354

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the

operations proposed herein will be performed by the operator, its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
\_\_\_\_\_  
Sheila Bremer

1/12/96  
\_\_\_\_\_  
Date

**Coastal Oil & Gas Corporation's Morgan State 4-36 Well Pad  
Section 36, T9S, R21E  
Class III Inventory, Uintah County, Utah**

DENVER DISTRICT - E & S

Prepared by,  
Dulaney Barclay  
Metcalf Archaeological Consultants, Inc.  
P. O. Box 899  
Eagle, CO 81632

JAN 12 1996

BLC \_\_\_\_\_ TFS \_\_\_\_\_ TCY \_\_\_\_\_ CEL \_\_\_\_\_  
GAB \_\_\_\_\_ JRN \_\_\_\_\_ MDE \_\_\_\_\_ LPS \_\_\_\_\_

Michael D. Metcalf  
Principal Investigator

Prepared for,  
Coastal Oil & Gas Corporation  
Denver, Colorado

Utah State Project #U-95-MM-0713s

January 1996

## **INTRODUCTION**

Metcalf Archaeological Consultants, Inc. (MAC), conducted a Class III cultural resource inventory of the proposed Morgan State #4-36 well pad location for Coastal Oil and Gas Corporation. The project consisted of the inventory of a ten acre block around the proposed well location. Access to the well pad and a pipeline are contained within the inventory block. The project area is located in the Bitter Creek Gas Field in Uintah County in the NW¼, SW¼ of section 36, T.9S, R.21E (Figure 1). The center stake for the proposed well is at 1912' FSL, 649' FWL. The access to the proposed pad is from an existing improved road that borders the pad on its west side. The proposed pipeline runs approximately 200 feet west and then wraps around the north end of the pad tying in with an existing aboveground pipeline north of the pad. The pipeline is completely contained within the ten acre block. No cultural resources were recorded during this investigation.

This project is located on property administered by the State of Utah, Salt Lake City, Utah. The survey was conducted on January 3, 1996 by the author. The project was carried out under State of Utah permit #U-95-MM which expires on 1/30/96. All field notes and maps are on file at the MAC office in Eagle, Colorado.

## **STATEMENT OF OBJECTIVES**

Following the mandated policies implementing the National Historic Preservation Act (NHPA [Public Law 89-665]), as amended, this project was inventoried to locate any cultural resources within the potential area of effect. Any discovered cultural resources were to be evaluated for eligibility to the National Register of Historic Places (Register). To be eligible for the Register, the resource must retain essential aspects of integrity and meet one or more of the Criteria for Eligibility (36 CFR §60.4). For archaeological resources, eligibility is typically recommended under Criterion d, on the basis of the information potential of surface artifacts and features, and intact sub-surface cultural deposits. Historical resources may be evaluated under any of the four Criteria on the basis of information potential or significant historic associations.

## **ENVIRONMENT**

This project is located in the southern margin of the Uintah Basin just west of Sand Wash between the Green River and the White River. The project area is located in a dissected upland area consisting of a series of north-south trending benches and ridges separated by incised intermittent and ephemeral drainages. The area is underlain by sandstones and siltstones of the Tertiary-aged Uinta Formation which cap the benches and ridges and form narrow benches on their slopes. Localized areas are mantled with Quaternary gravel deposits, and low lying areas contain gravelly alluvial and small aeolian sand sheet

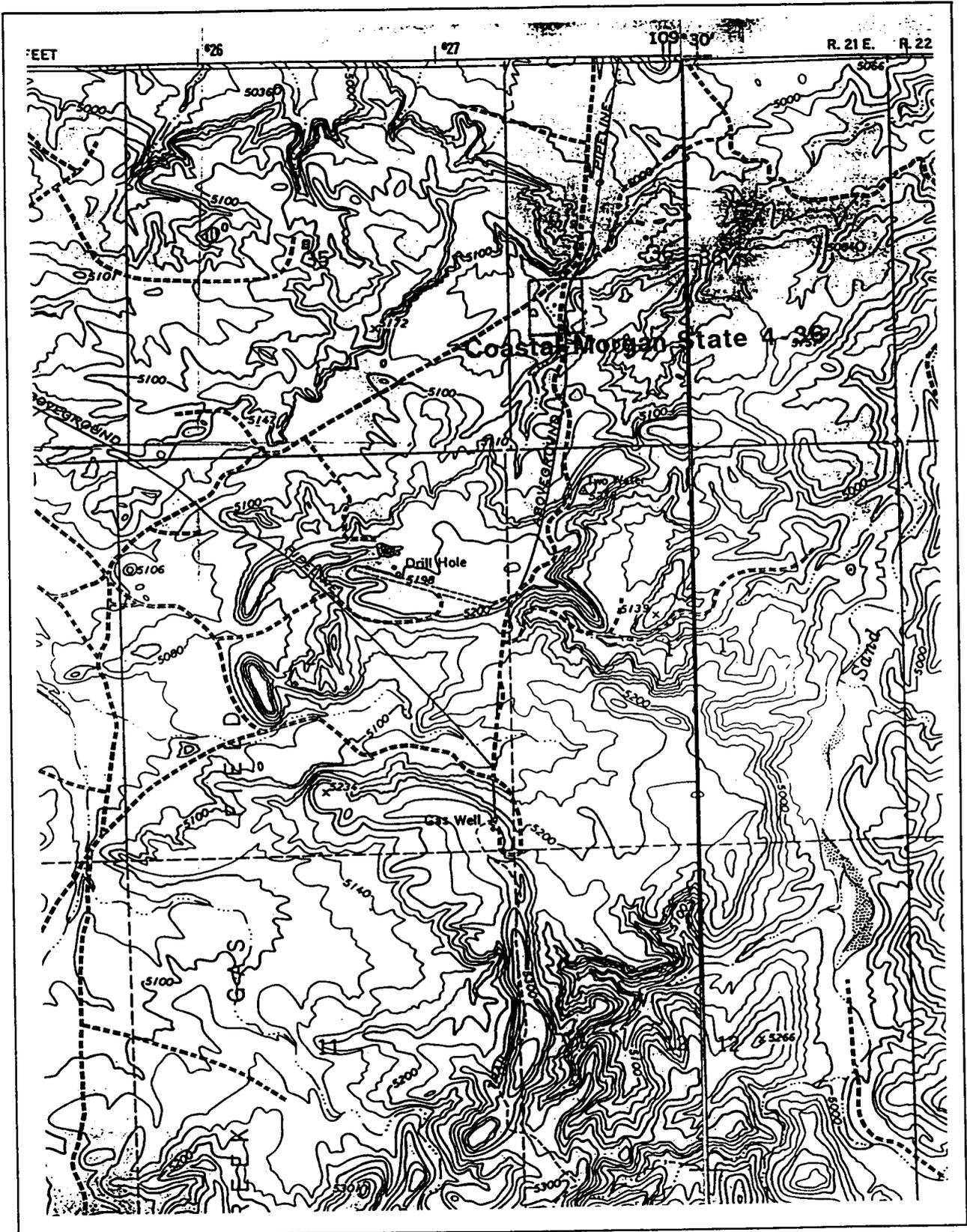


Figure 1 Project location map, Section 36, T.9S, R.21E (Archy Bench and Big Pack Mountain NE 7.5' Quadrangles 1968 (PR 1987)).

deposits (Hintze 1980). The numerous intermittent and ephemeral drainages flow north and northeast into the Green and White Rivers via a few north flowing creeks.

The pad is located in the bottom of a south to north flowing intermittent drainage. The project area is bounded on the east and west by sandstone capped ridges that have narrow benches on their slopes. The vegetation consists of greasewood, thorny horsebrush, cactus, rabbitbrush, and bunch grass. Vegetation cover was low with a maximum of 30% allowing for good to very good ground surface visibility. Most of the project area is located on sandstone bedrock with some very gravelly alluvial sand deposits in the drainage bottom and a small area of aeolian sand at the very southern end of the inventory block within the drainage bottom.

## **FILES SEARCH**

A files search was conducted through the Utah State Division of History on December 28, 1995. Two linear projects have been conducted in section 36, T.9S, R.21E. A inventory of a small pipeline in 1981 by Brigham Young University (BYU) resulted in the recording of 42UN1204. The site consisted of a small lithic scatter (5 m x 5 m). It was determined to be ineligible and subsequently destroyed by road construction. A inventory of the Book Cliffs Highway by Archaeological Environmental Research Consultants (AERC) in 1990 located no cultural resources.

## **FIELD METHODS**

The well pad area was covered intensively by a series of pedestrian transects spaced 15 m apart. Special attention was paid to areas of enhanced subsurface visibility, such as eroded areas, rodent backdirt piles, road cuts and animal trails. If cultural material was located, the area was examined closely until all surface manifestations had been identified and the resource adequately defined. The appropriate forms were then filled out, and in the case of sites a black and white overview picture taken and a site sketch map made using a Brunton Pocket Transit and pacing for distances. Sites were marked by white pvc pipe with a aluminum tag bearing the temporary number of the site.

## **RESULTS AND RECOMMENDATIONS**

No cultural resources were found during the inventory of the Coastal Morgan State 4-36 well pad. Cultural resource clearance is recommended.

## REFERENCES CITED

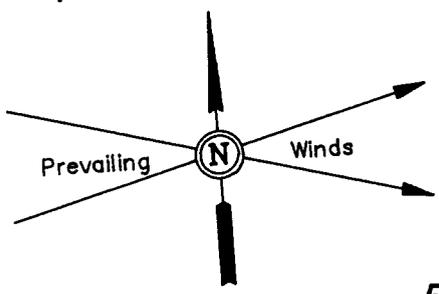
Hintze, Lehi F.

1980 *Geologic Map of Utah*. Utah Geological and Mineral Survey, Salt Lake City.  
UT.

COASTAL OIL & GAS CORP.

FIGURE #1

LOCATION LAYOUT FOR  
MORGAN STATE #4-36  
SECTION 36, T9S, R21E, S.L.B.&M.  
1912' FSL 649' FWL



SCALE: 1" = 50'  
DATE: 1-4-96  
Drawn By: D.R.B.



RE-ROUTE 4" PIPELINE

Existing 4" Pipeline

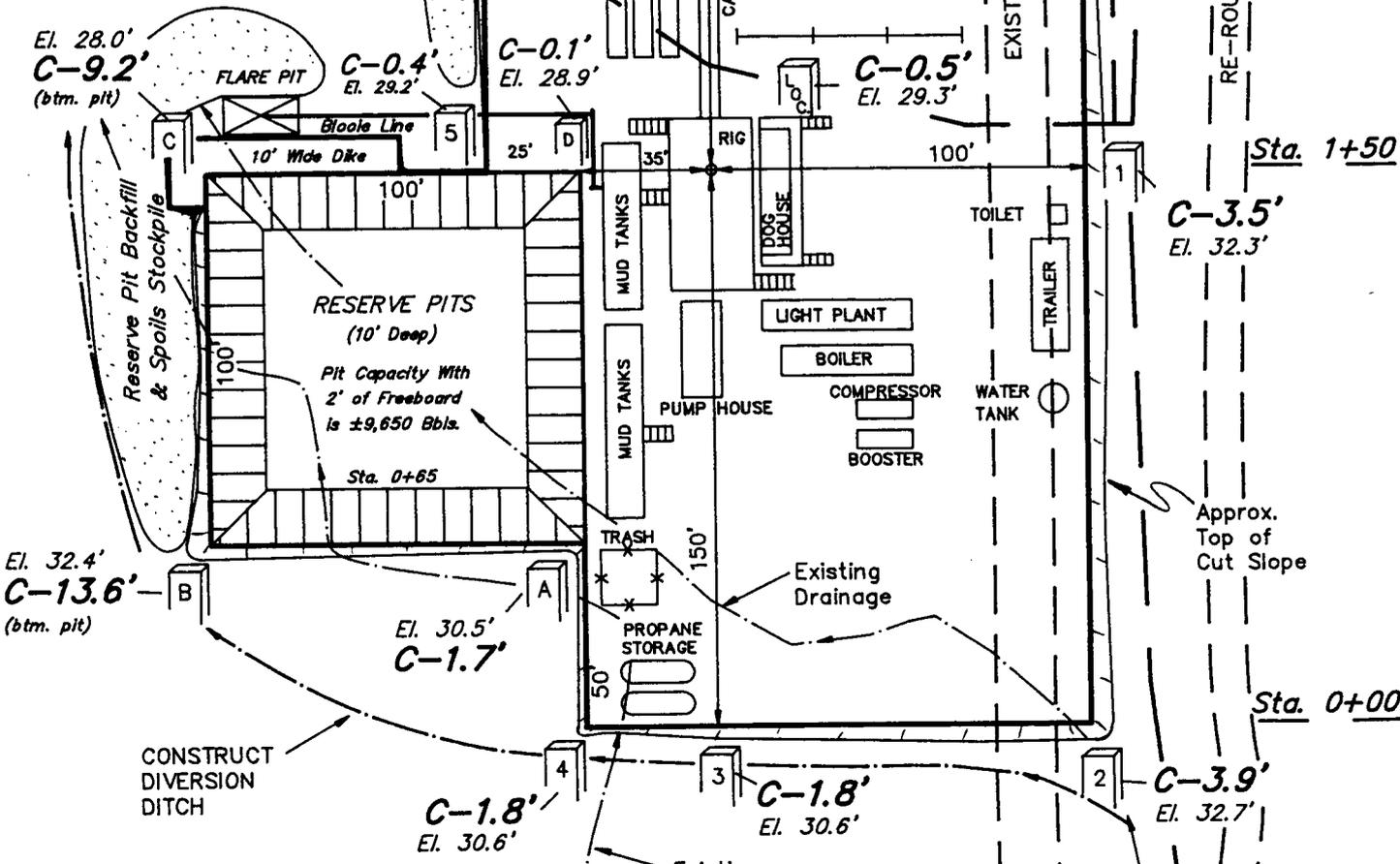
Proposed Access Road  
Approx. Toe of Fill Slope

EXISTING 12" PIPELINE

RE-ROUTE ROAD

Sta. 3+25

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.

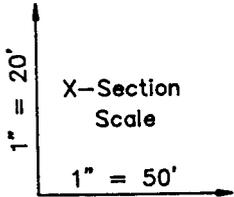
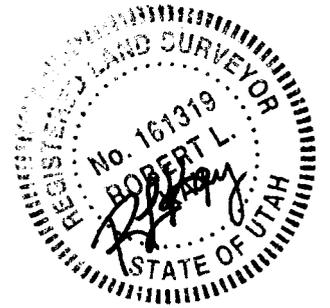


**NOTES:**

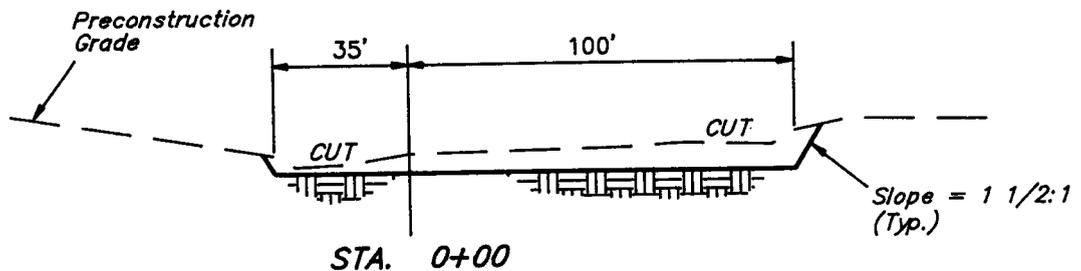
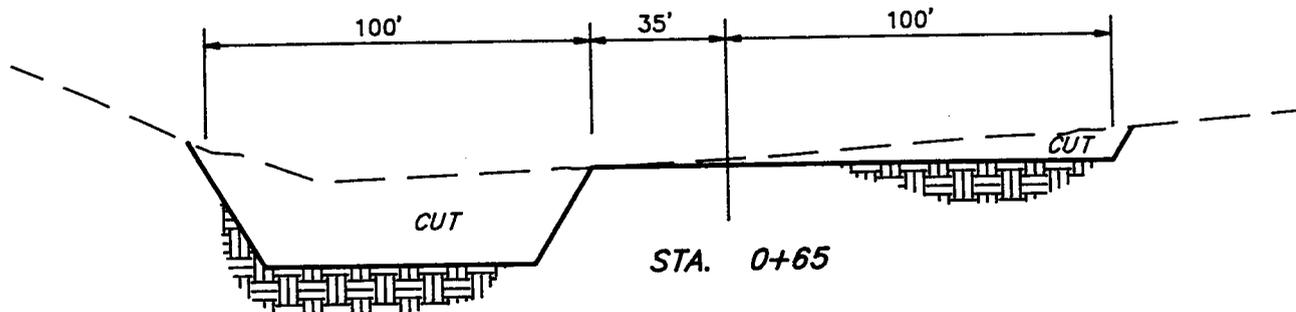
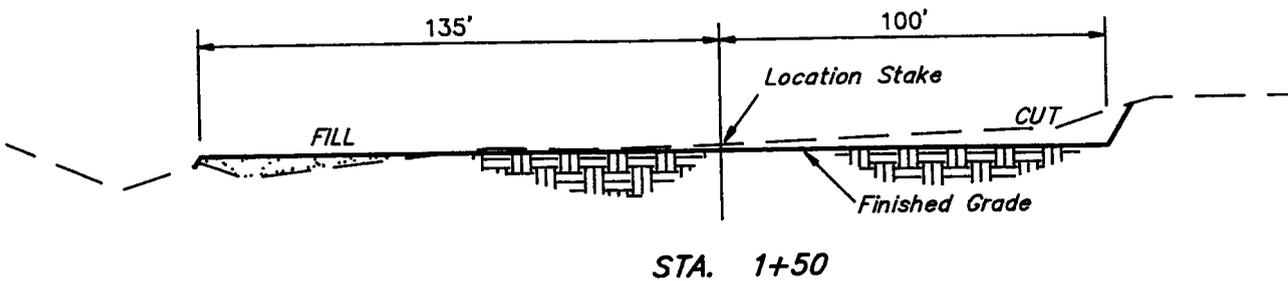
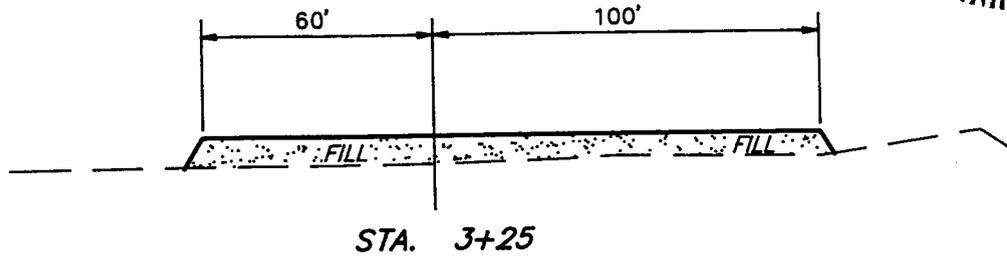
Elev. Ungraded Ground At Loc. Stake = 5029.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5028.8'

COASTAL OIL & GAS CORP.

TYPICAL CROSS SECTIONS FOR  
MORGAN STATE #4-36  
SECTION 36, T9S, R21E, S.L.B.&M.  
1912' FSL 649' FWL



DATE: 1-4-96  
Drawn By: D.R.B.

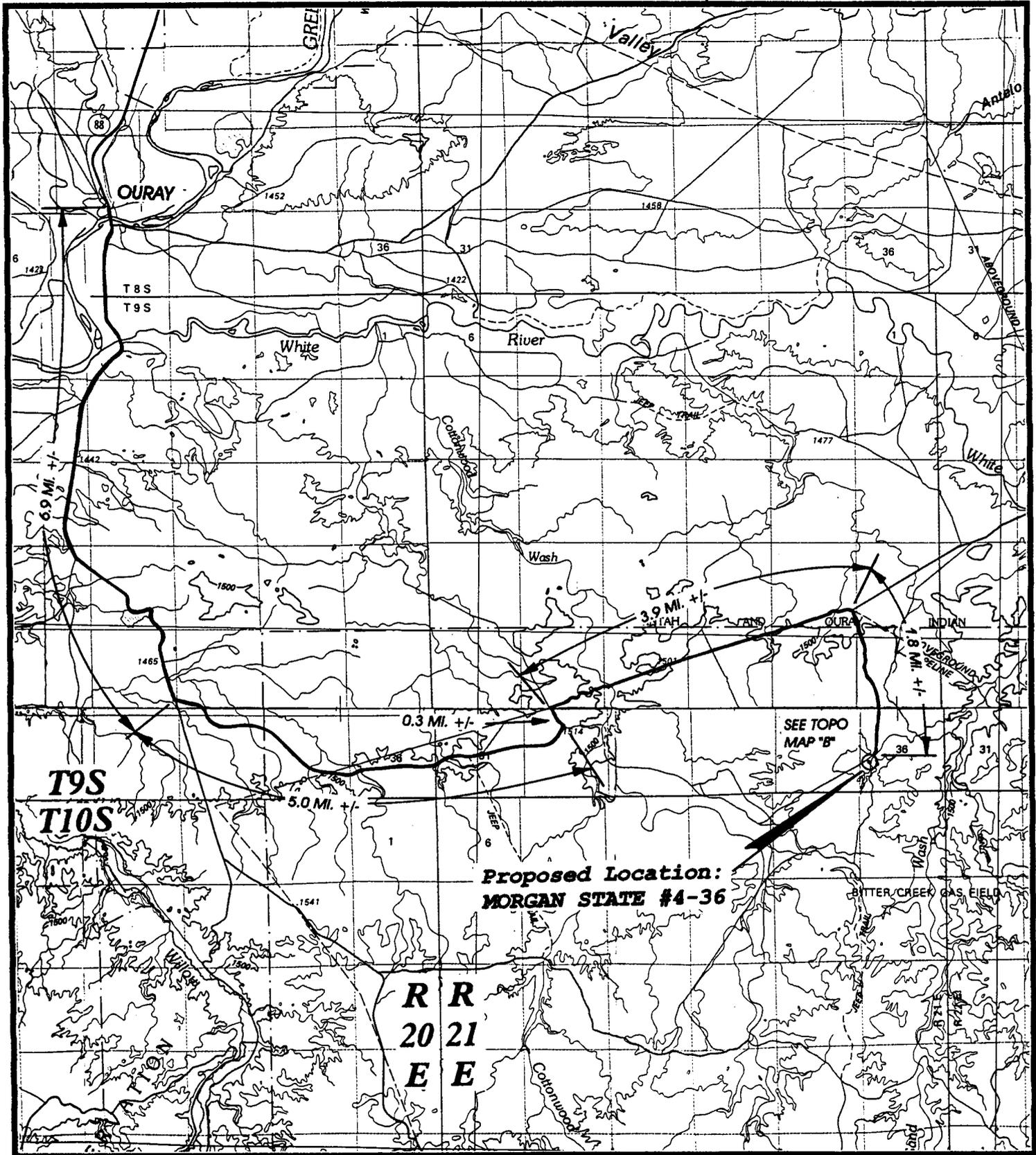


**FIGURE #2**

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,080 Cu. Yds.
Remaining Location	= 3,350 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 4,430 CU.YDS.</b>
<b>FILL</b>	<b>= 1,540 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,430 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 380 Cu. Yds.



**Proposed Location:  
MORGAN STATE #4-36**

SEE TOPO  
MAP "B"

**T9S  
T10S**

**R R  
20 21  
E E**

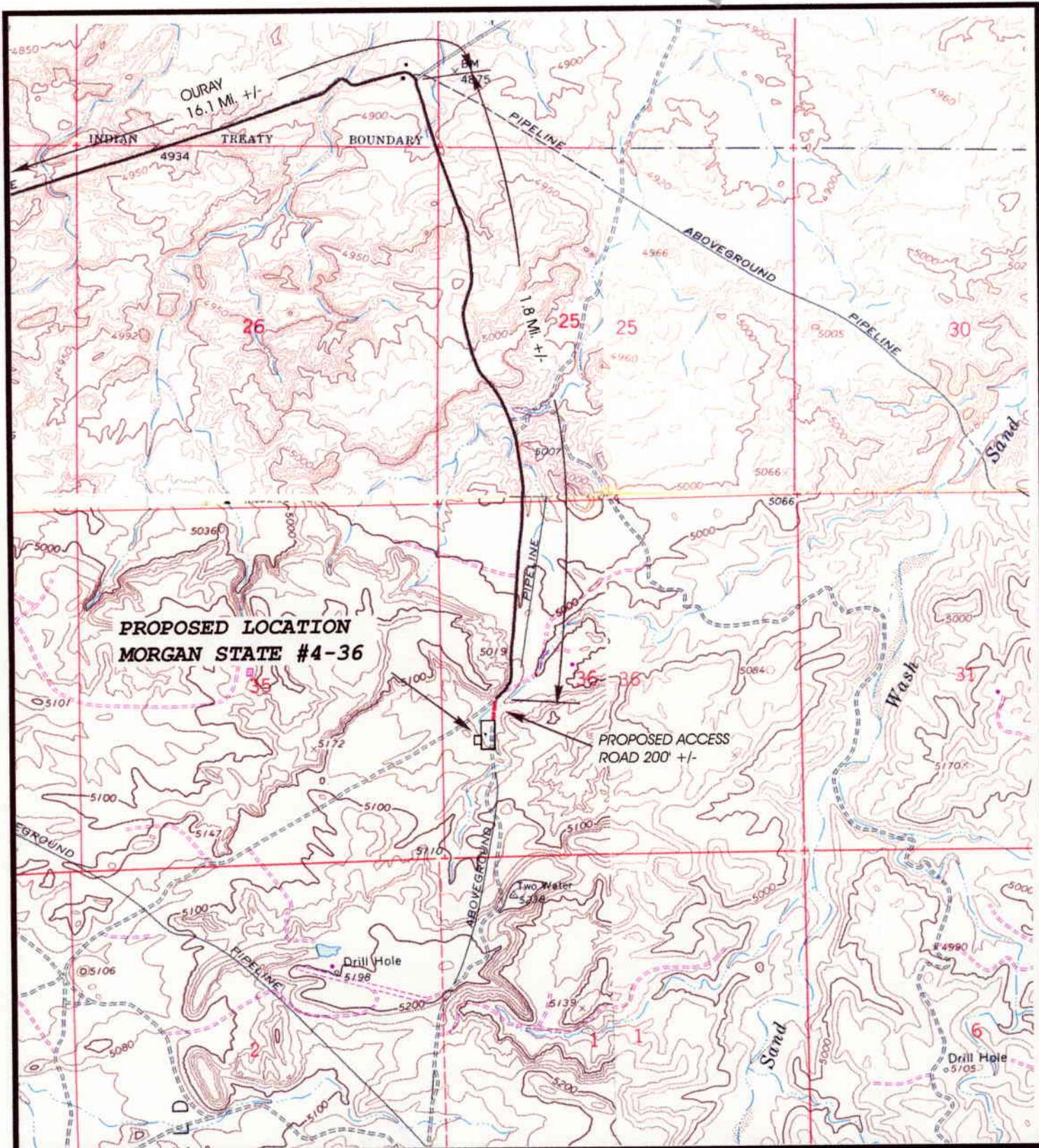
**U E I S**  
**TOPOGRAPHIC  
 MAP "A"**  
 DATE: 1-5-96  
 Drawn by: D.R.B.

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



**COASTAL OIL & GAS CORP.**

MORGAN STATE #4-36  
 SECTION 36, T9S, R21E, S.L.B.&M.  
 1912' FSL 649' FWL



**UELS**

**TOPOGRAPHIC  
MAP "B"**

**DATE: 1-5-96  
Drawn by: D.R.B.**

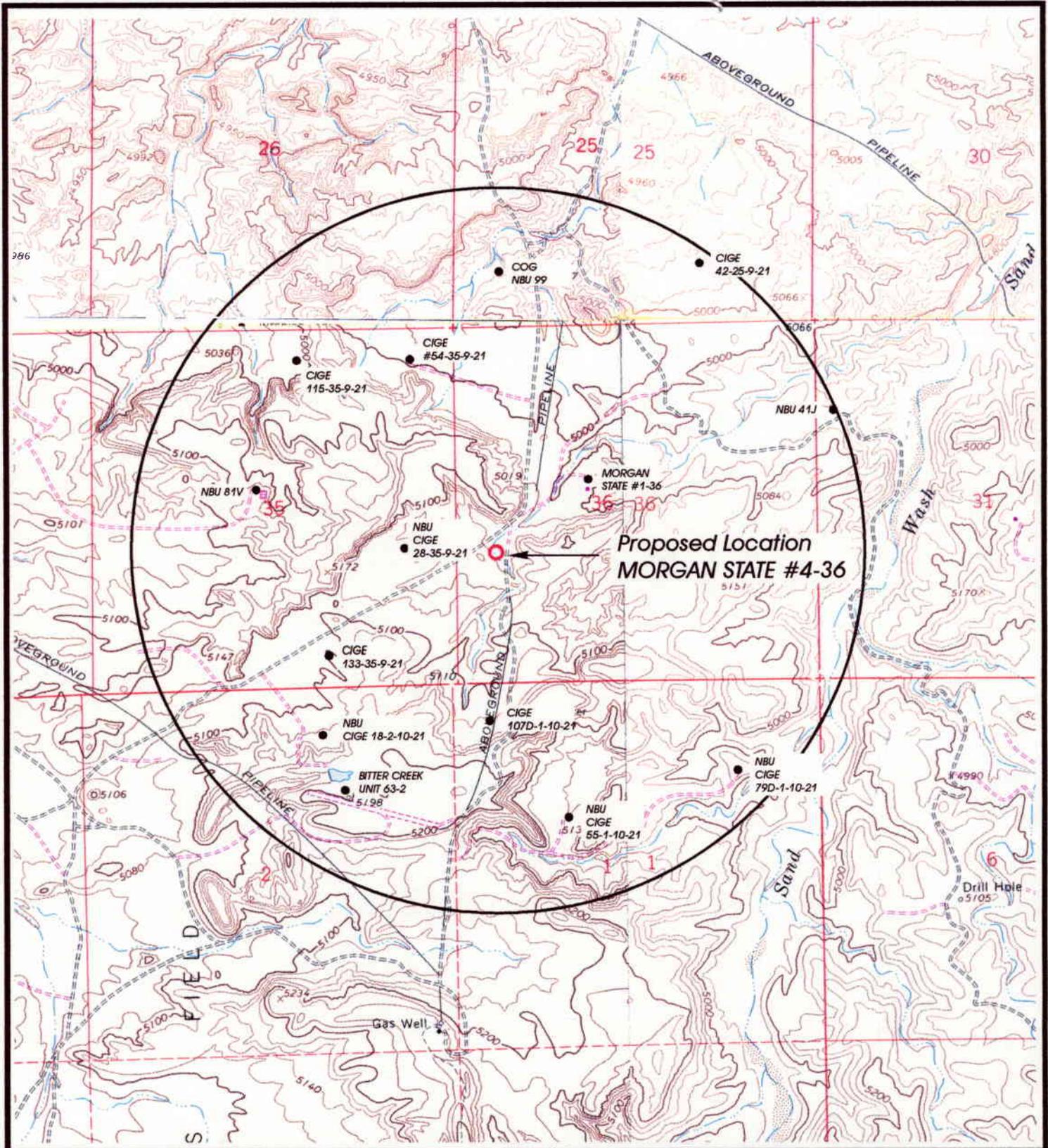
**UINTAH ENGINEERING & LAND SURVEYING**  
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**SCALE: 1" = 2000'**

**COASTAL OIL & GAS CORP.**

**MORGAN STATE #4-36  
SECTION 36, T9S, R21E, S.L.B.&M.  
1912' FSL 649' FWL**



Proposed Location  
MORGAN STATE #4-36

**LEGEND**

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-In Wells

**U E I S**  
 UTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017



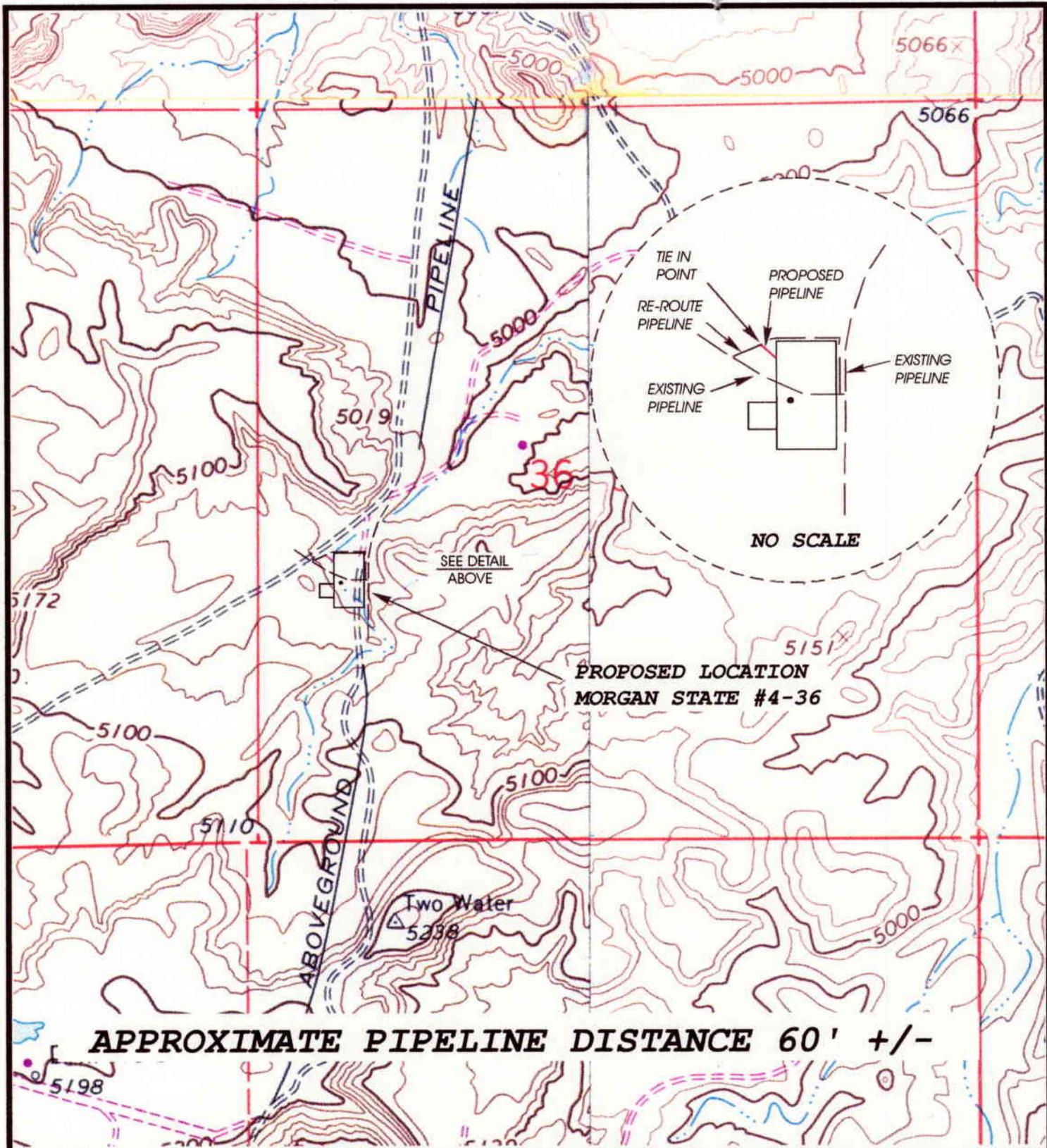
SCALE: 1" = 2000'

**COASTAL OIL & GAS CORP.**

MORGAN STATE #4-36  
 SECTION 36, T9S, R21E, S.L.B.&M.

**TOPOGRAPHIC  
 MAP "C"**

DATE: 1-5-96 Drawn by: D.R.B.



**APPROXIMATE PIPELINE DISTANCE 60' +/-**

TOPOGRAPHIC  
MAP "D"



----- Existing Pipeline  
HHHHHHH Proposed Pipeline



**COASTAL OIL & GAS CORP.**

MORGAN STATE #4-36  
SECTION 36, T9S, R21E, S.L.B.&M.

DATE: 1-5-96

Drawn by: D.R.B.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

**STATE OF UTAH, DIV OF OIL, GAS & MINERALS**

<b>Operator: COASTAL OIL &amp; GAS CORP</b>	<b>Well Name: MORGAN STATE 4-36</b>
<b>Project ID: 43-047-32729</b>	<b>Location: SEC.36 - T09S - R21E</b>

Design Parameters:

Mud weight (10.00 ppg) : 0.519 psi/ft  
 Shut in surface pressure : 3950 psi  
 Internal gradient (burst) : 0.101 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

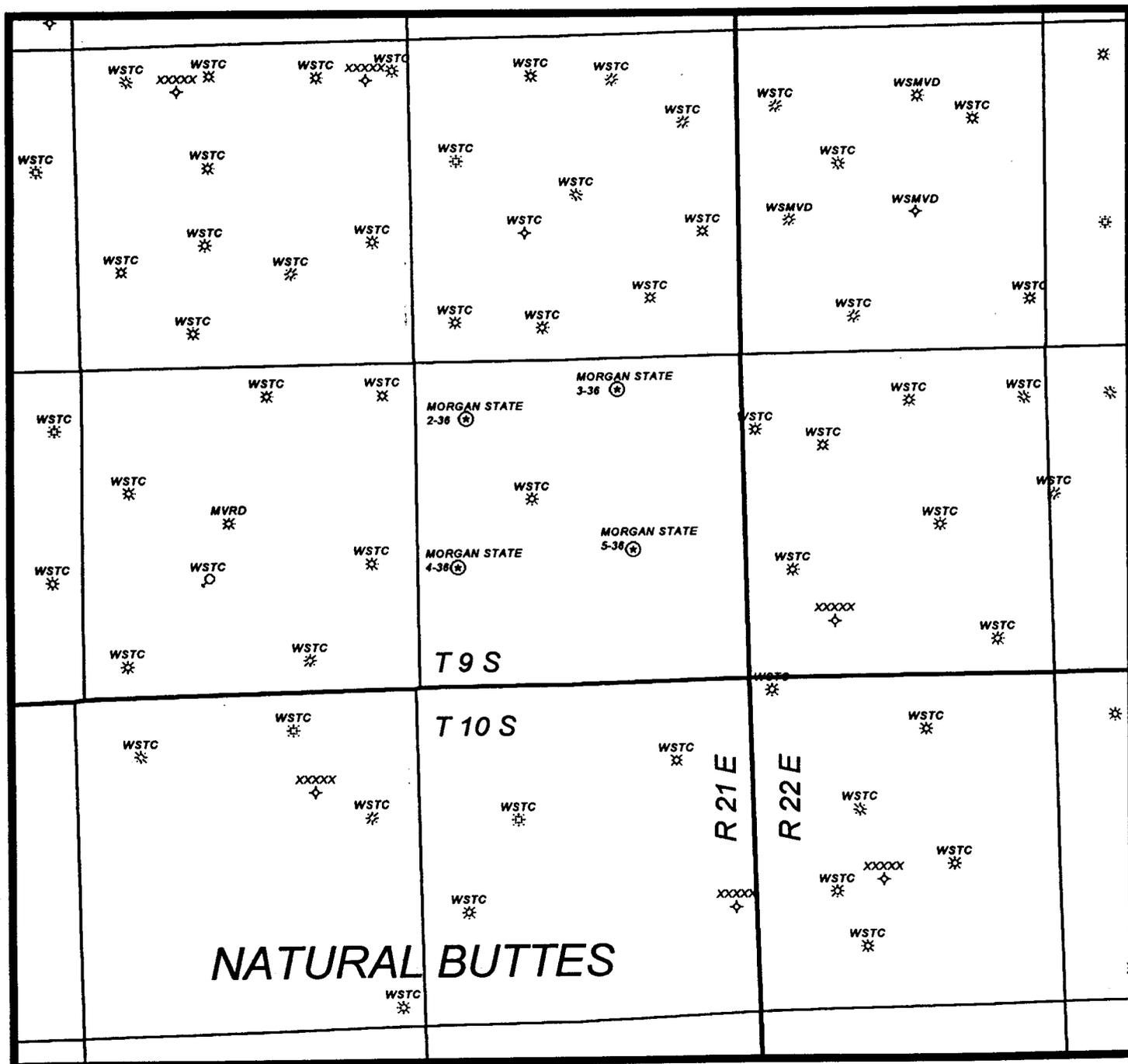
Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	9,450	5.500	17.00	N-80	LT&C	9,450	4.767		
	<b>Load (psi)</b>	<b>Collapse Strgth (psi)</b>	<b>S.F.</b>	<b>Burst Load (psi)</b>	<b>Min Int Strgth (psi)</b>	<b>Yield S.F.</b>	<b>Tension Load (kips)</b>	<b>Strgth (kips)</b>	<b>S.F.</b>
1	4909	6280	1.279	4909	7740	1.58	160.65	348	2.17 J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 02-08-1996  
 Remarks :

Minimum segment length for the 9,450 foot well is 1,500 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 140°F (Surface 74°F , BHT 206°F & temp. gradient 1.400°/100 ft.)  
 String type: Production  
 The mud gradient and bottom hole pressures (for burst) are 0.519 psi/ft and 4,909 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

# COASTAL OIL & GAS NATURAL BUTTES DEVELOPMENT SEC. 36, T9S, R21E, UINTAH CO. UAC 649-3-2 & R649-3-3



**STATE SPACING  
UAC R649-3-2 R649-3-3**

**PREPARED:  
DATE: 1/16/96**



**State of Utah  
Division of Oil, Gas & Mining (OGM)**

**ON-SITE PREDRILL EVALUATION AND REVIEW  
FOR  
APPLICATION FOR PERMIT TO DRILL (APD)**

OPERATOR:

COASTAL OIL & GAS

WELL NO:

MORGAN STATE 4-36

LEASE NO:

ML - 22265

API No:

43-047-32729

LEASE TYPE:

State

Fee

PROPOSED LOCATION

¼/¼:

NW SW

SECTION:

36

TOWNSHIP:

9 S

RANGE:

21 E

COUNTY:

UINTAH

FIELD:

NATURAL BUTTES

SURFACE:

1912 FSL 649 FWL

BOTTOM HOLE:

SAME AS ABOVE

GPS COORDINATES:

12627521 E 4428323 N

SURFACE OWNER:

STATE OF UTAH

SURFACE AGREEMENT: Yes  No

CONFIDENTIAL: Yes  No

LOCATING AND SITING:

UAC R649-2-3.

Unit



UAC R649-3-2. General

UAC R649-3-3. Exception

UCA 40-6-6. Drilling Unit

-- Cause No.

**DRILLING PROGRAM:**

The following information is included in the Application for Permit to Drill submitted.

1. Surface Formation and Estimated Tops/Geologic Markers
2. Estimated Depths and Names of Anticipated Water, Oil, Gas or other Mineral Bearing Formations  
  
(All fresh water sands encountered during drilling shall be recorded and reported to the Division on Form 7.)
3. Well Control Equipment & Testing Procedures
4. Proposed Casing and Cementing Program
5. Mud Program, Circulating Medium, and Monitoring equipment
6. Coring, Testing, and Logging Program
7. Expected Bottom Hole Pressures and any anticipated Abnormal Pressures, Temperatures or Potential Hazards such as hydrogen sulfide, expectations and contingency plans for mitigating identified hazards
8. Any other information relative to the proposed operation.

**Onsite Participants:**

PAUL BRASHIERS AND SHIELA BRENNER (COGC), ROBERT KAY (UINTAH ENGINEERING AND LAND SURVEY), BILL SIERSMA (COLORADO INTERSTATE GAS CO.), HARLEY JACKSON (JACKSON CONSTRUCTION), JIM JUSTICE (J WEST), DAVID HACKFORD (DOGM).

**Regional Setting/Topography:**

SEMI-DESERT HABITAT. PROPOSED LOCATION IS IN AN AREA OF ROLLING HILLS WITH SHALLOW GULLIES DRAINING NORTH TOWARDS THE WHITE RIVER.

**SURFACE USE PLAN:**

Current Surface Use: DOMESTIC LIVESTOCK AND WILDLIFE GRAZING.

Proposed Surface Disturbance: LOCATION WILL BE 325' BY 235'.

1. Existing Roads A DIRT OILFIELD ROAD IS JUST EAST OF SITE. THE NATURAL BUTTES FIELD IS CRISSCROSSED WITH DIRT ROADS.
2. Planned Access Roads - include length of new road, length of existing road to be upgraded, maximum disturbed and travel surface widths, maximum grades, turnouts, surface materials, drainage, cattleguards 200' OF NEW ROAD WILL BE REQUIRED.
3. Location of existing wells within one-mile radius of proposed location, include water, injection, producing, drilling with present status of each well SEE ATTACHED MAP FROM THE GIS DATABASE.
4. Location of Production Facilities and Pipelines PRODUCTION FACILITIES WILL BE ON LOCATION.
5. Location and Type of Water Supply (include Division of Water Rights approval or identifying number) WATER WILL BE SUPPLIED BY TRUCK TO THE LOCATION WHILE DRILLING OPERATIONS ARE UNDERWAY.
6. Source of Construction Material MATERIALS WILL BE BORROWED FROM LOCATION SPOIL.
7. Waste Management Plan \_\_\_\_\_
8. Ancillary Facilities NONE WILL BE REQUIRED.
9. Well Site Layout SEE ATTACHED PLAT.
10. Surface Restoration Plans AS REQUIRED BY STATE LANDS.

**ENVIRONMENTAL PARAMETERS:**

**Affected Floodplain and/or Wetlands:**

A 404 dredge and fill permit may be required if this site is in or adjacent to a wetland or other established drainage or floodplain. (Contact the Army Corps of Engineers if there are concerns of this nature) NO.

**Flora/Fauna:**

Briefly describe the flora found on the proposed site and the fauna evidenced or sighted on or near the proposed location VEGETATION COVER CONSISTS OF SHADSCALE COMMUNITY SPECIES, PREDOMINATELY GREASEWOOD, CHEATGRASS, AND FOURWING SALTBRUSH. ANTELOPE, COYOTE, RABBIT, SMALL BIRDS, RAPTORS, LIZARDS AND OTHER SMALL REPTILES.

**SURFACE GEOLOGY**

Soil Type and Characteristics: LIGHT BROWN SAND WITH SOME CLAY LOAM.

Surface Formation & Characteristics: UINTAH FORMATION, SOUTH FLANK OF UINTAH MOUNTAINS.

Erosion/Sedimentation/Stability: MINOR EROSION, MINOR SEDIMENTATION, NO STABILITY PROBLEMS ANTICIPATED.

Paleontological Potential Observed: NONE OBSERVED.

**RESERVE PIT**

Characteristics: 100' BY 100' AND 10' DEEP.

Lining (Site ranking form attached): A 12 MIL PLASTIC LINER WILL BE REQUIRED.

**OTHER OBSERVATIONS**

Cultural Resources/Archaeology (if proposed location is on State land, has an archaeology clearance been obtained?): AN ARCHAEOLOGY SURVEY HAS BEEN COMPLETED BY METCALE ARCHAEOLOGICAL CONSULTANTS, INC.

Comments: PRE-SITE WAS PERFORMED ON A COLD DAY WITH 4" SNOW COVER.

DAVID W. HACKFORD  
OGM Representative

1/30/96 8:00 AM  
Date and Time

**STATEMENTS OF BASIS**

**OGM Review of Application for Permit to Drill (APD)**

Company: COASTAL OIL & GAS

Well Name: MORGAN STATE 4-36

**ENGINEERING/LOCATING and SITING:**

The proposed location meets the location and siting requirements of R649-3-2. The application and proposed casing and drilling plan appear to be consistent with accepted industry standards of practice and sound engineering design. A casing design safety check is attached. Blow out prevention and monitoring/contingency plans are adequate.

Signature: F. R. Matthews Date: 02/08/96

**GEOLOGY/GROUND WATER:**

The base of moderately saline water is at a depth of approximately 2500 feet. The proposed casing and cement program will adequately protect any water encountered.

Signature: D. Jarvis Date: 2/8/96

**SURFACE:**

THE PRE-SITE INSPECTION OF THE SURFACE HAS BEEN PERFORMED BY FIELD PERSONNEL. ALL APPLICABLE MANAGEMENT AGENCIES AND LAND OWNERS HAVE BEEN NOTIFIED AND THEIR CONCERNS ACCOMMODATED WHERE REASONABLE AND POSSIBLE.

Signature: DAVID W. HACKFORD Date: 2/1/96

**STIPULATIONS for APD Approval:**

1. A 12 MIL PIT LINER WILL BE REQUIRED IN RESERVE PIT. PIT MUST BE WEST SIDE OF LOCATION.
2. EXISTING GULLY CROSSING SITE MUST BE REROUTED WEST OF RESERVE PIT SPOILS STOCKPILE WHICH MUST BE WEST OF RESERVE PIT.
3. NO OTHER ACCESS ROADS TO BE DEVELOPED WITHOUT APPROVAL BY STATE LANDS.
4. ANY CHANGES TO BE APPROVED BY DOGM.

**ATTACHMENTS:**

1. PHOTOGRAPHS OF SITE WILL BE PUT ON FILE.

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

Site-Specific Factors	Ranking Score	Final Ranking Score
<b>Distance to Groundwater (feet)</b> >200 100 to 200 75 to 100 25 to 75 <25 or recharge area	0 5 10 15 20	0
<b>Distance to Surf. Water (feet)</b> >1000 300 to 1000 200 to 300 100 to 200 < 100	0 2 10 15 20	0
<b>Distance to Nearest Municipal Well (feet)</b> >5280 1320 to 5280 500 to 1320 <500	0 5 10 20	0
<b>Distance to Other Wells (feet)</b> >1320 300 to 1320 <300	0 10 20	0
<b>Native Soil Type</b> Low permeability Mod. permeability High permeability	0 10 20	20

<b>Fluid Type</b> Air/mist Fresh Water TDS >5000 and <10000 TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents	0 5 10 15 20	5
<b>Drill Cuttings</b> Normal Rock Salt or detrimental	0 10	0
<b>Annual Precipitation (inches)</b> <10 10 to 20 >20	0 5 10	0
<b>Affected Populations</b> <10 10 to 30 30 to 50 >50	0 6 8 10	0
<b>Presence of Nearby Utility Conduits</b> Not Present Unknown Present	0 10 15	0

<b>Final Score</b>	25
--------------------	----

The summation of all of the above ranking scores will yield one value which shall be used to determine the appropriate type of containment, on a case-by-case basis. The sensitivity levels are as follows:

Level I Sensitivity: For scores totaling  $\geq 20$   
Level II Sensitivity: For scores totaling 15 to 19  
Level III Sensitivity: For scores totaling  $< 15$

#### Containment Requirements According to Sensitivity Level

Level I: Requires total containment by synthetic liner, concrete structure or other type of total containment structure or material.

Level II: Bentonite or other compatible lining is discretionary depending on the fluid to be contained and environmental sensitivity.

Level III: No specific lining requirements.

#### OTHER GUIDELINES FOR PITS

1. Unlined pits shall not be constructed on areas of fill materials.
2. A pit shall not be constructed in a drainage or floodplain of flowing or intermittent streams.
3. Synthetic liners used for lining reserve pits, shall be of 12 mil thickness or greater and shall be compatible with the fluid to be contained. Synthetic liners used for lining onsite pits with a longer expected life shall be a minimum of 30 mil thickness or as approved by the Division.
4. Synthetic liners shall be installed over smooth fill material which is free of pockets, loose rocks or other materials which could damage the liner.
5. Monitoring systems for pits or closed mud systems may be required for drilling in sensitive areas.



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-358-3940 (Fax)  
801-538-5319 (TDD)

February 9, 1996

Coastal Oil & Gas Corporation  
P.O. Box 749  
Denver, Colorado 80201-0749

Re: Morgan State #4-36 Well, 1912' FSL, 649' FWL, NW SW, Sec. 36, T. 9 S.,  
R. 21 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-32729.

Sincerely,

R. J. Pith  
Associate Director

lwp  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WAPD



Operator: Coastal Oil & Gas Corporation  
Well Name & Number: Morgan State #4-36  
API Number: 43-047-32729  
Lease: ML-22265  
Location: NW SW Sec. 36 T. 9 S. R. 21 E.

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

#### 2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

#### 3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. On-site Predrill Evaluation and Review

Compliance with all requirements and stipulations developed during the onsite evaluation and review.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
ML-22265

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

6. Indian, Allottee or Tribe Name:  
N/A

7. Unit Agreement Name:  
N/A

1. Type of Well: OIL  GAS  OTHER:

8. Well Name and Number:  
Morgan State #4-36

2. Name of Operator  
Coastal Oil & Gas Corporation

9. API Well Number:  
43-047-32729

3. Address and Telephone Number.  
P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455

10. Field and Pool, or Wildcat  
Natural Buttes Field

4. Location of Well  
Footages: 1912' FSL & 649' FWL  
QQ,Sec., T., R., M.: NW/SW Section 36-T9S-R21E

County: Uintah  
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon\*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start Upon Approval

Date of work completion \_\_\_\_\_

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

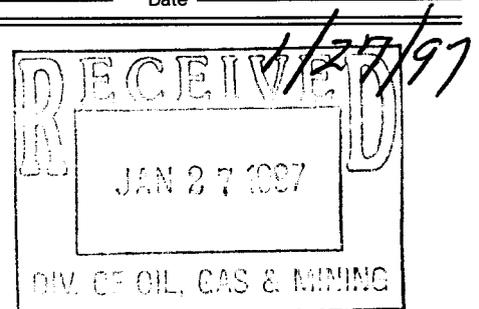
Operator requests permission to change pressure control equipment to 3,000 psi 11" annular preventer, 11" double gate hydraulic BOP as the maximum BHP is 3,780 psi (0.4 psi/ft.) and maximum anticipated surface pressure is 1,701 psi (gas gradient - 0.22 psi/ft.), and anticipated mud weight is 9.0 ppg with the possibility of 10.0 ppg prior to running casing.

Verbal approval obtained from Frank R. Matthews on 1/24/97.

13. Name & Signature Sheila Bremer Title Environmental & Safety Analyst Date 1/24/97

(This space for State use only)

FR Matthews Petroleum Engineer



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: COASTAL OIL & GAS

Well Name: MORGAN STATE 4-36

Api No. 43-047-32729

Section 36 Township 9S Range 21E County UINTAH

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED:

Date 1/30/97

Time \_\_\_\_\_

How DRY SPUD

Drilling will commence \_\_\_\_\_

Reported by D. HACKFORD

Telephone # \_\_\_\_\_

Date: 1/31/97 Signed: FRM

ENTITY ACTION FORM - FORM 6

OPERATOR Coastal Oil & Gas Corporation

OPERATOR ACCT. NO. N 0230

ADDRESS P.O. Box 749

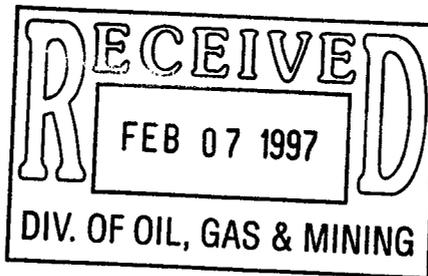
Denver, CO 80201-0749

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	02900	43-047-32794	CIGE #204-35-9-21	SWNE	35	9S	21E	Uintah	2/1/97	2/1/97
WELL 1 COMMENTS: (Coastal) <i>Entity added 2-7-97. (Natural Buttes Unit)</i>											
A	99999	12068	43-047-32729	Morgan State #4-36	NWSW	36	9S	21E	Uintah	2/2/97	2/2/97
WELL 2 COMMENTS: <i>Entity added 2-7-97.</i>											
A	99999	12069	43-047-32735	Morgan State #5-36	NWSE	36	9S	21E	Uintah	1/31/97	1/31/97
WELL 3 COMMENTS: <i>Entity added 2-7-97.</i>											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.



*Sheila Bremer*  
 Signature Sheila Bremer  
 Title Environ. & Safety Analyst Date 2/4/97  
 Phone No. 303 573-4455

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455**

4. Location of Well  
Footages: **1912' FSL & 649' FWL**  
QQ, Sec., T., R., M.: **NW/SW Section 36-T9S-R21E**

County: **Uintah**  
State: **Utah**

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon*                  | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other _____    | <b>Spud Notice</b>                            |

Date of work completion 2/3/97

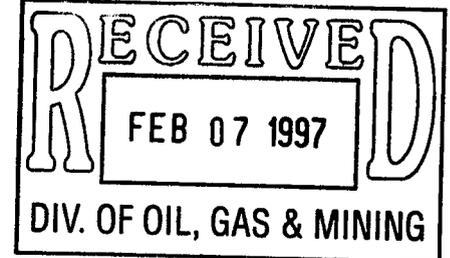
Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2/2/97: RU Bill Martin Jr. Rat Hole Dr'g Serv. Drill 24" hole to 43'.

2/3/97: RIH w/43' 16" .250 wall thick condr pipe. Cmt w/3 yds Redi-mix.



13. Name & Signature Sheila Bremer Title Environmental & Safety Analyst Date 2/4/97

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
CEMENTING OPERATIONS

WELL NAME: MORGAN STATE 4-36 API NO: 43-047-32729

QTR/QTR: NW/SW SECTION: 36 TOWNSHIP: 9S RANGE 21E  
COMPANY NAME: COASTAL OIL & GAS COMPANY MAN SCOTT SEELY  
INSPECTOR: DAVID W. HACKFORD DATE: 2/9 & 2/10/97

CASING INFORMATION: SURFACE CASING: YES

SIZE: 8 5/8" GRADE: 24 LB J55 HOLE SIZE: 12 1/4 DEPTH: 2495'

PIPE CENTRALIZED: YES: FIFTEEN

CEMENTING COMPANY: HALLIBURTON

CEMENTING STAGES: ONE

SLURRY INFORMATION:

1. CLASS: TYPE 5 ADDITIVES: 3% SALT, 1% CXI, 10 LBS. GILSONITE, 2 LBS. GRANULITE AND 1/4 LB. FLOSELE PER SACK.

LEAD : 755 SACKS ALCOLITE TAIL: 370 SACKS TYPE 5 WITH 2% CACL

2. SLURRY WEIGHT LBS. PER GALLON:

LEAD: 12.1 YIELD 2.19 TAIL: 15.6 YIELD 1.18

3. WATER (GAL/SX)

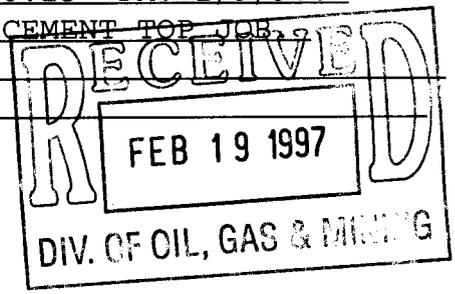
LEAD: 19.3 TAIL: 5.2

CEMENT TO SURFACE: NO LOST RETURNS: YES

1 INCH INFORMATION: WEIGHT: 15.6 CEMENT TO SURFACE: YES

FEET: 64' SX: 200 CLASS: 5 CACL%: 2% RETURNS: YES

ADDITIONAL COMMENTS: WOODEN PLUG BUMPED AT 6:15 PM. 2/9/97. WAITED FOUR HOURS TO RUN ONE INCH PIPE AND CEMENT TO SURFACE. CEMENT CAME TO SURFACE AND DID NOT FALL. CAZA RIG #59 ON WELL.





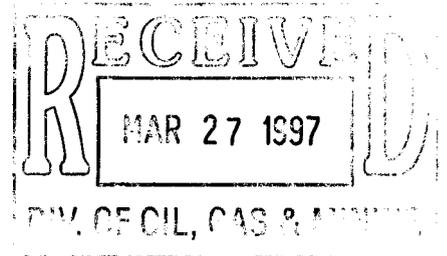
**CORE LABORATORIES**

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**CORE ANALYSIS RESULTS**

**for**

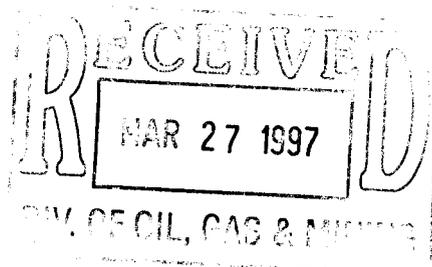
**Coastal Oil & Gas Corp.  
Morgan St. #4-36  
Natural Buttes Field  
Uintah Co., Utah  
57122-8070**





## PETROLEUM SERVICES

March 24, 1997



Mr. Bob LaRocque  
Coastal Oil & Gas Corp.  
P.O. Box 749  
Denver, CO 80201

*Subject:*

*Core Analysis Project  
Morgan St. #4-36  
Uintah Co., UT  
File Number: 57122-8071*

Dear Mr. LaRocque:

Core Laboratories was requested to analyze core material obtained from the subject well. The following test was done and the results are presented in a graphical and tabular format within this report:

1. Rotary Plug Type Analysis

Thank you for the opportunity to perform this study for Coastal. Should you have any questions pertaining to these test results or if we may be of further assistance, please contact us at (307) 265-2731.

Very truly yours,

David A. Foster  
Supervisor

## CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
 Well : Morgan St 4-36  
 Location : NW SW Sec 36 T9S R21E  
 Co,State : Uintah, Utah

Field : Natural Buttes  
 Formation : As Noted  
 Coring Fluid : Water Base Mud  
 Elevation : 5042 KB

File No.: 57122-8071  
 Date : 11-Mar-1997  
 API No. :  
 Analysts: DF SS

### C O R E   A N A L Y S I S   R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
Rotary Sidewalls								
Green River Fm.								
1	2911.0	12.7	18.0	0.0	79.0	2.67	1.	Sst gry vf gr
2	2981.0						2.	Mud
3	3229.0	7.11	15.2	0.0	80.0	2.68	1.	Sst gry vf gr calc
4	3451.0	19.4	15.8	6.5	77.6	2.65	0.	Sst gry vf gr shy
5	3454.0	1.59	11.6	0.0	86.8	2.66	3.	Sst gry vf gr shy
Mesaverde Fm.								
6	7396.0	0.26	11.1	0.0	77.0	2.65	5.	Sst lt gry f gr
7I	7400.9	0.74	10.0	0.0	81.5	2.66	5.	Sst lt gry f gr
8	7473.0	1.24	8.9	0.0	64.6	2.65	2.	Sst lt gry f gr
9	7484.0	0.13	10.5	0.0	62.7	2.66	5.	Sst lt gry f gr
10	7494.0	0.10	9.8	0.0	69.0	2.66	1.	Sst lt gry f gr
11	7578.0	0.34	10.9	0.0	70.8	2.65	3.	Sst lt gry f-m gr
12	7585.0	0.09	8.8	0.0	66.4	2.66	2.	Sst lt gry f-m gr
13	7613.0	0.05	9.6	1.1	58.2	2.65	1.	Sst lt gry f-m gr
14	7622.0	0.15	8.7	1.2	62.4	2.65	0.	Sst lt gry f-m gr
15I	7699.9	6.09	10.3	1.6	77.5	2.63	0.	Sst lt gry f-m gr
16	7704.0	0.08	9.3	0.0	65.7	2.64	2.	Sst lt gry f-m gr
17	7718.0	2.08	11.0	0.0	66.0	2.65	1.	Sst lt gry f-m gr

Data, Rotaries 1 - 1

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
Well : Morgan St 4-36

Field : Natural Buttes  
Formation : As Noted

File No.: 57122-8071  
Date : 11-Mar-1997

## C O R E   A N A L Y S I S   R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
18	7722.0	1.32	10.0	0.0	67.6	2.65	2.	Sst lt gry f-m gr
19	7744.0	0.03	7.6	0.0	59.5	2.67	0.	Sst lt gry f-m gr
20	7808.0	1.32	7.9	0.0	64.5	2.68	5.	Sst lt gry f gr
21I	7818.9	4.49	8.0	0.0	68.0	2.66	0.	Sst lt gry f gr
22I	7917.9	1.51	15.9	0.0	30.5	2.65	1.	Sst lt gry f gr
23	8272.0	0.03	7.5	0.0	44.8	2.67	0.	Sst lt gry f gr
24	8332.0	<.01	2.9	0.0	63.3	2.69	1.	Sst lt gry f gr calc
25	8339.0	0.02	7.2	0.0	47.8	2.68	1.	Sst gry f gr
26I	8488.9	0.53	6.3	0.0	41.4	2.68	1.	Sst gry f gr
27	8497.0	0.03	7.6	0.0	50.7	2.67	0.	Sst gry f gr
28	8501.0	1.06	7.5	0.0	40.4	2.68	0.	Sst gry f gr
29	8514.0	0.09	11.4	0.0	56.5	2.68	0.	Sst gry f gr
30	8588.0	0.02	6.5	0.0	28.3	2.69	0.	Sst gry v-f gr
31I	8613.9	1.53	9.7	0.0	32.1	2.70	0.	Sst gry v-f gr
32	8629.0	1.10	8.9	0.0	43.4	2.69	1.	Sst gry v-f gr
33	8652.0	<.01	4.7	0.0	50.2	2.67	0.	Sst gry v-f gr
34	8680.0	0.05	8.4	0.0	19.2	2.67	1.	Sst gry v-f gr
35	8854.0	0.04	11.2	0.0	32.2	2.66	1.	Sst gry v-f gr
36*	8874.0		10.1	0.0	24.5	2.62	0.	Sst gry v gr
37	8874.5	0.08	12.3	0.0	39.2	2.66	1.	Sst gry v gr
38*	8901.0		9.4	0.0	37.4	2.62	1.	Sst gry v gr
39	8960.0	0.01	3.6	0.0	28.0	2.63	0.	Sst gry v gr
40*	8983.0		4.1	0.0	35.3	1.54	150.	Coal
41	9016.0	<.01	7.8	0.8	50.7	2.63	18.	Sst gry vf gr
42	9024.0	<.01	4.3	0.0	24.1	2.62	130.	Sst dkgry vf gr
43*	9026.0		4.5	0.0	41.2	2.52	20.	Sltst blk coal
44	9235.0	1.68	7.9	0.0	42.0	2.69	14.	Sst gry vf-f gr
45	9252.0	0.02	9.1	1.0	32.9	2.68	2.	Sst gry vf gr
46	9296.0	0.03	8.3	1.8	30.4	2.67	14.	Sst gry vf gr

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
 Well : Morgan St 4-36

Field : Natural Buttes  
 Formation : As Noted

File No.: 57122-8071  
 Date : 11-Mar-1997

## CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
47	9301.0	0.04	9.3	0.0	35.6	2.67	10.	Sst gry vf gr
48	9340.0	0.05	10.8	0.0	27.1	2.67	2.	Sst gry vf gr
*=Unsuitable for permeability measurement  i=Irregular sample, data may be suspect								

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
Well : Morgan St 4-36

Field : Natural Buttes  
Formation : GREEN RIVER

File No.: 57122-8071  
Date : 11-Mar-1997

TABLE I

## SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
<b>ZONE:</b>	<b>ZONE:</b>	<b>PERMEABILITY:</b>
Identification ----- Green River	Number of Samples ----- 4	Flow Capacity ----- 40.8 md-ft
Top Depth ----- 2911.0 ft	Thickness Represented - 4.0 ft	Arithmetic Average ---- 10.2 md
Bottom Depth ----- 3455.0 ft		Geometric Average ----- 7.27 md
Number of Samples ----- 5	<b>POROSITY:</b>	Harmonic Average ----- 4.45 md
<b>DATA TYPE:</b>	Storage Capacity ----- 60.6 $\phi$ -ft	Minimum ----- 1.59 md
Porosity ----- (HELIUM)	Arithmetic Average ---- 15.1 %	Maximum ----- 19.4 md
Permeability ----- (HORIZONTAL) Kair	Minimum ----- 11.6 %	Median ----- 9.90 md
	Maximum ----- 18.0 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 0.475}$ md
<b>CUTOFFS:</b>	Median ----- 15.5 %	
Porosity (Minimum) ----- 0.0 %	Standard Deviation ---- $\pm 2.7$ %	<b>HETEROGENEITY (Permeability):</b>
Porosity (Maximum) ----- 100.0 %		Dykstra-Parsons Var. -- 0.787
Permeability (Minimum) --- 0.0000 md	<b>GRAIN DENSITY:</b>	Lorenz Coefficient ---- 0.355
Permeability (Maximum) --- 100000. md	Arithmetic Average ---- 2.66 gm/cc	
Water Saturation (Maximum) 100.0 %	Minimum ----- 2.65 gm/cc	<b>AVERAGE SATURATIONS (Pore Volume):</b>
Oil Saturation (Minimum) - 0.0 %	Maximum ----- 2.68 gm/cc	Oil ----- 1.7 %
Grain Density (Minimum) -- 2.00 gm/cc	Median ----- 2.66 gm/cc	Water ----- 80.4 %
Grain Density (Maximum) -- 3.00 gm/cc	Standard Deviation ---- $\pm 0.01$ gm/cc	
Lithology Excluded ----- NONE		

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
 Well : Morgan St 4-36

Field : Natural Buttes  
 Formation : GREEN RIVER

File No.: 57122-8071  
 Date : 11-Mar-1997

## TABLE II

### SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
<b>ZONE:</b>	<b>ZONE:</b>	<b>PERMEABILITY:</b>
Identification ----- Mesaverde	Number of Samples ----- 42	Flow Capacity ----- 26.4 md-ft
Top Depth ----- 7396.0 ft	Thickness Represented - 42.0 ft	Arithmetic Average ---- 0.68 md
Bottom Depth ----- 9341.0 ft		Geometric Average ---- 0.12 md
Number of Samples ----- 43	<b>POROSITY:</b>	Harmonic Average ----- 0.01 md
	Storage Capacity ----- 365.5 $\phi$ -ft	Minimum ----- 0.00 md
<b>DATA TYPE:</b>	Arithmetic Average ---- 8.7 %	Maximum ----- 6.09 md
Porosity ----- (HELIUM)	Minimum ----- 2.9 %	Median ----- 0.09 md
Permeability ----- (HORIZONTAL) Kair	Maximum ----- 15.9 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 0.949}$ md
	Median ----- 8.9 %	
<b>CUTOFFS:</b>	Standard Deviation ---- $\pm 2.5$ %	<b>HETEROGENEITY (Permeability):</b>
Porosity (Minimum) ----- 0.0 %		Dykstra-Parsons Var. -- 0.887
Porosity (Maximum) ----- 100.0 %	<b>GRAIN DENSITY:</b>	Lorenz Coefficient ---- 0.716
Permeability (Minimum) --- 0.0000 md	Arithmetic Average ---- 2.66 gm/cc	
Permeability (Maximum) --- 100000. md	Minimum ----- 2.52 gm/cc	<b>AVERAGE SATURATIONS (Pore Volume):</b>
Water Saturation (Maximum) 100.0 %	Maximum ----- 2.70 gm/cc	Oil ----- 0.2 %
Oil Saturation (Minimum) - 0.0 %	Median ----- 2.66 gm/cc	Water ----- 50.1 %
Grain Density (Minimum) -- 2.00 gm/cc	Standard Deviation ---- $\pm 0.03$ gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc		
Lithology Excluded ----- NONE		

## CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
 Well : Morgan 4-36  
 Location : NW SW Sec 36 T9S R21E  
 Co,State : Uintah, Utah

Field : Natural Buttes  
 Formation : Various  
 Coring Fluid : Water Base Mud  
 Elevation :

File No.: 57122-8071  
 Date : 11-Mar-1997  
 API No. :  
 Analysts: DF SS

C M S - 3 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	K <sub>∞</sub> md	K <sub>air</sub> (est) md	b (He) psi	BETA ft(-1)	ALPHA microns
1	2911.0	800.0			10.6	12.7	8.80	5.23902E8	1.80027E1
3	3229.0	800.0			5.85	7.11	10.43	3.04606E9	5.74483E1
6	7396.0	800.0			0.175	0.265	32.27	1.1118E12	6.18766E2
9	7484.0	800.0			0.072	0.131	54.46	2.3529E13	5.34667E3
10	7494.0	800.0			0.057	0.103	53.87	1.8236E13	3.29720E3
11	7578.0	800.0			0.220	0.339	33.18	1.0141E12	7.10323E2
12	7585.0	800.0			0.050	0.085	48.69	3.3163E13	5.18912E3
13	7613.0	800.0			0.027	0.047	52.73	5.5367E14	4.74271E4
14	7622.0	800.0			0.096	0.153	38.92	5.6578E12	1.72332E3
16	7704.0	800.0			0.044	0.080	54.56	3.7771E13	5.30690E3
19	7744.0	800.0			0.017	0.030	58.21	1.5356E15	8.09082E4
23	8272.0	800.0			0.015	0.030	70.76	5.4148E14	2.59470E4
25	8339.0	800.0			0.012	0.019	44.18	7.9470E15	3.06392E5
27	8497.0	800.0			0.017	0.031	65.38	4.7863E14	2.51894E4

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
Well : Morgan 4-36

Field : Natural Buttes  
Formation : Various

File No.: 57122-8071  
Date : 11-Mar-1997

## C M S - 3 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	$K_{\infty}$ md	$K_{air}(est)$ md	b (He) psi	BETA ft(-1)	ALPHA microns
29	8514.0	800.0			0.047	0.086	55.74	4.7358E13	7.06352E3
30	8588.0	800.0			0.010	0.016	42.78	1.1082E16	3.52505E5
33	8652.0	800.0			0.005	0.007	29.52	4.9135E16	7.79421E5
34	8680.0	800.0			0.027	0.049	58.16	5.4808E14	4.63580E4
35	8854.0	800.0			0.018	0.036	72.11	7.6102E14	4.37027E4
37	8874.5	800.0			0.043	0.079	58.19	6.1279E13	8.34924E3
39	8960.0	800.0			0.008	0.011	30.71	2.2276E16	5.59338E5
41	9016.0	800.0			0.005	0.009	74.67	9.5961E15	1.44572E5
45	9252.0	800.0			0.008	0.016	92.92	1.0002E15	2.37638E4
46	9296.0	800.0			0.018	0.030	51.02	1.9500E15	1.10703E5
47	9301.0	800.0			0.023	0.043	63.85	2.2314E14	1.62348E4
48	9340.0	800.0			0.028	0.052	62.87	1.6861E14	1.48107E4

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
Well : Morgan 4-36

Field : Natural Buttes  
Formation : Various

File No.: 57122-8071  
Date : 11-Mar-1997

## ANALYTICAL PROCEDURES AND QUALITY ASSURANCE

### HANDLING & CLEANING

Core Transportation : Express Hot Shot (truck)  
Solvent : Toluene  
Extraction Equipment : Dean Stark  
Extraction Time : 4 Hours  
Drying Equipment : Humidity Oven  
Drying Time : 12 Hours  
Drying Temperature : 48C(Wet) 63C(Dry)

### ANALYSIS

Grain volume measured by Boyle's Law in a matrix cup using He  
Bulk volume by Archimedes Principle  
Water saturations by Dean Stark  
Oil saturations by weight difference in Dean Stark

## CORE MEASUREMENT SYSTEM (CMS-300)

$$\text{Porosity} = \frac{\text{Directly Measured Pore Volume}}{\text{Bulk Volume}} \times 100$$

$$\text{Porosity} = \frac{\text{Helium Injected Into Pore Space By CMS}}{\text{CMS Pore Volume} + \text{Boyle's Law Grain Volume}}$$

NOTE: The second porosity equation corrects for bulk volume reduction as overburden pressure is applied.

$k_{\infty}$  = Equivalent, non-reactive, liquid permeability determined by the CMS at up to eight designated net overburden confining stresses. This is an improved flow capacity indicator since gas slippage effects present at low laboratory pore pressure (and not in the reservoir) have been eliminated.

$k_{\text{air}}$  = A calculated air permeability approximating historical core analysis permeability data.  $k_{\text{air}}$  is an optimistic value. Low pore pressures in historical laboratory measurements result in gas slippage not present at reservoir conditions and create artificially high permeability values.

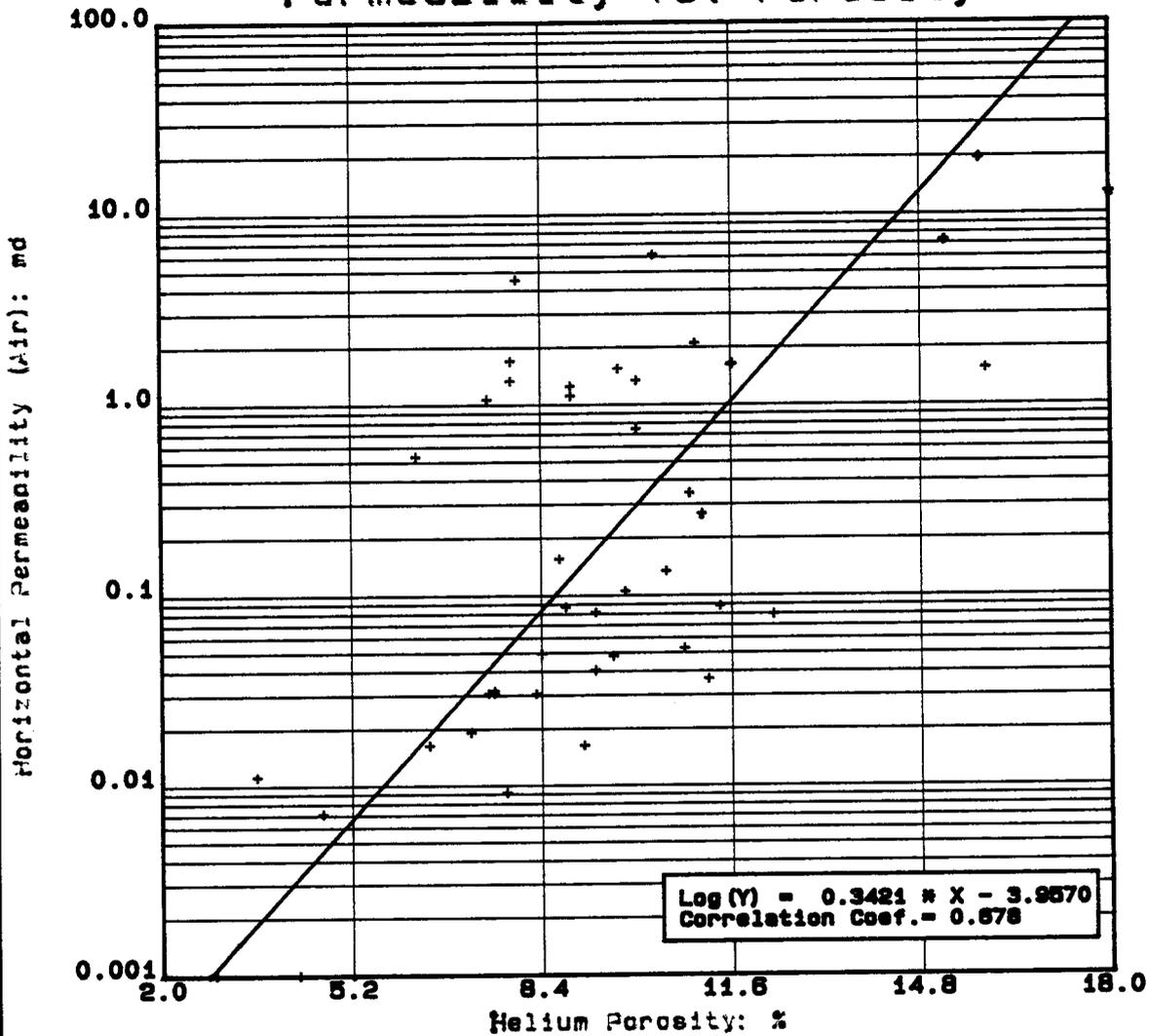
$b$  = A term dependent on (1) pore geometry and (2) type of gas utilized in the permeability measurement that links  $k_{\infty}$  and  $k_{\text{air}}$  as follows.

$$k_{\text{air}} = k_{\infty} \left( 1 + \frac{b_{\text{air}}}{P_{\text{mean}}} \right)$$

$P_{\text{mean}}$  = The mean pore pressure which is equivalent to the average of the upstream and downstream pressure of the core being tested. This value is lower in a typical laboratory determination than in the reservoir.

Beta = Forchheimer inertial term, needed to account for lost flow rate due to gas inertial and/or kinetic effects as gas flows through rock pores.

# Permeability vs. Porosity



<p style="text-align: center;"><b>Coastal Oil &amp; Gas Corporation</b>                  Morgan St 4-36                  Natural Buttes Field                  Uintah Co., UT                  Green River (2911-9340 feet)                  Rotary Sidewalls</p> <p>Core Laboratories <span style="float: right;">11-Mar-1997</span></p>	<p style="text-align: center;">- LEGEND -</p> <p style="text-align: center;">Green River Mesaverde</p>
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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML - 22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455**

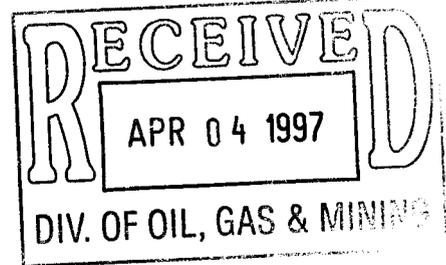
4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ, Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Reperforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Reperforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Drilling Operations</u>	
<input type="checkbox"/> Other _____			
Approximate date work will start _____		Date of work completion <u>3/13/97</u>	
		Report results of <b>Multiple Completions</b> and <b>Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached chronological history for drilling operations performed on the subject well.



13. Name & Signature Sheila Bremer Title Environmental & Safety Analyst Date 3/26/97

(This space for State use only)

<b>PERC</b>	<b>WELL CHRONOLOGICAL REPORT</b>
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WELL NAME: MORGAN STATE #4-36	FIELD NAME: NATURAL BUTTES	COUNTY: UINTAH
AFE#: 26800	OPERATOR: COASTAL OIL & GAS CORP.	SPUD DATE: 2/7/97
WI%:		

DATE: 2/4/97      DEPTH: 43      ACTIVITY AT REPORT TIME: WAIT ON ROTARY TOOLS  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$17,612.10      CUMM COST : \$17,612.10

ACTIVITY LAST 24 HOURS: RU BILL MARTIN JR RAT HOLE DRLG SER. DRILL 24" HOLE TO 43' 2/2/97. RIH W/43' 16" .25 WALL THICK COND PIPE. CMT W/3 YDS REDDI MIX 2/3/97

DATE: 2/7/97      DEPTH: 56      ACTIVITY AT REPORT TIME: RURT. PREP TO SPUD  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$843.70      CUMM COST : \$18,455.80

ACTIVITY LAST 24 HOURS: RDRT F/NBU 229. MOVE RIG TO MORGAN STATE 4-36. RURT. VERY MUDDY SLICK CONDITIONS

DATE: 2/8/97      DEPTH: 1204      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 19.00      PROGRESS: 1148 ft  
 MW: 0.0      DAILY COST: \$21,942.80      CUMM COST : \$40,398.60

ACTIVITY LAST 24 HOURS: RU PU BHA DRLG PU ROT HEAD F/AIR MIST DRLG SURVEY RS DRLG 315-632' SURVEY DRLG 632-865' CHANGE ROT HEAD RUBB F/DP DRLG 865-1204'



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 2/9/97      DEPTH: 2500      ACTIVITY AT REPORT TIME: MAKE SHORT TRIP F/SURF CSG JOB  
HOURS: 19.00      PROGRESS: 1296 ft  
MW: 0.0      DAILY COST: \$52,616.80      CUMM COST : \$93,015.40

ACTIVITY LAST 24 HOURS: DRLG 1204-1422' SURVEY RS DRLG 1422-1822' REPAIR BLOOIE LINE DLRG 1822-1916' SURVEY DRLG 1916-2413' SURVEY RS DRLG 2413-2500' CSG PT. CIRC FOR SHORT TRIP SHORT TRIP. DRLG BREAK F/1587-1607'. STARTED MAKING H2O @ THIS BREAK.

DATE: 2/10/97      DEPTH: 2500      ACTIVITY AT REPORT TIME: WELD ON WELLHEAD  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$60,586.10      CUMM COST : \$153,601.50

ACTIVITY LAST 24 HOURS: SHORT TRIP TO DC'S. (SLM NO CORR) CIRC & COND POOH F/CSG LD 8" DC & SHOCK SUB RU T&M CASERS & RAN 59 JTS 8 5/8" 52# K55 ST&C W/HOWCO SHOE & FLOAT (1 SHOE JT). TOTAL STRING 2494.21' 18 CENT CIRC & COND CMT W/HALLIBURTON. PMPD 20 FW LEAD 755 SX HLC W/10# SX GILSONITE, 3% SALT, 2% GRANULITE, 1% CX-1, 1/4# SX FLOCELE, WT 12.1, Y 2.19. TAIL W/370 SX TYPE V W/2% CC, 1/4# SX FLOCELE, WT 15.6, Y 1.18. DROP PLUG & DISPL W/155 BBL WTR. PLUG BUMPED FLOATS HELD. +/- 25 BBLs CMT TO SURF. COMP @ 6:15 PM 2/9/97 WOC. 1" TOP JOB W/200 SX TYPE V. CMT FELL 20' CUT OFF 8 5/8" CSG & WELD ON 11" 5000 WELLHEAD.

DATE: 2/11/97      DEPTH: 2770      ACTIVITY AT REPORT TIME: DRLG W/AERATED WTR  
HOURS: 3.50      PROGRESS: 270 ft  
MW: 8.4      DAILY COST: \$14,797.20      CUMM COST : \$168,398.70

ACTIVITY LAST 24 HOURS: NU BOP'S PRESS TEST BOP'S TO 3000#, HYDRIL 1500#, CHOKE 3000#, CSG 15003 (WITH DAVE HACKFORD UTAH STATE) HOOK UP FLARE LINES & PU BHA RS - PUMP COOLER RS TIH WASH OUT MOUSE HOLE DRILL OUT CMT FLOAT & SHOE 2418-2495' DRLG 2500-2770'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/12/97      DEPTH: 4005      ACTIVITY AT REPORT TIME: DRLG W/AERATED WTR  
 HOURS: 21.50      PROGRESS: 1235 ft  
 MW: 8.4      DAILY COST: \$36,697.10      CUMM COST : \$205,095.80

ACTIVITY LAST 24 HOURS: DRLG 2770-2893' RS DRLG 2893-2924' SURVEY @ 2850' 2 DEGS DRLG 2924-3172' SURVEY @ 3097' 1 1/2 DEGS DRLG 3172-3635' SURVEY @ 3608' 1 1/2 DEGS RS DRLG 3635-4005'

DATE: 2/13/97      DEPTH: 5031      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 21.00      PROGRESS: 1026 ft  
 MW: 8.5      DAILY COST: \$30,003.50      CUMM COST : \$235,099.30

ACTIVITY LAST 24 HOURS: DRLG 4005-4162' RS SURVEY DRLG 4162-4657' SURVEY DRLG 4657-4906' SURVEY RS DRLG 4906-4937' SURVEY DRLG 4937-5031'. TOP WASATCH 4624'

DATE: 2/14/97      DEPTH: 5730      ACTIVITY AT REPORT TIME: DRLG W/AERATED WTR  
 HOURS: 22.00      PROGRESS: 699 ft  
 MW: 8.6      DAILY COST: \$22,290.50      CUMM COST : \$257,389.80

ACTIVITY LAST 24 HOURS: DRLG 5031-5432' RS SURVEY @ 5367' 4 DEGS DRLG 5432-5556' SURVEY @ 5490' 3 3/4 DEGS RS DRLG 5556-5730'. WASATCH 80% SHALE, 20% SS

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/15/97      DEPTH:                    6265      ACTIVITY AT REPORT TIME: DRLG  
 HOURS:                    22.25      PROGRESS:                    535 ft  
 MW:                            0.0      DAILY COST:    \$18,361.80      CUMM COST :                    \$275,751.60

ACTIVITY LAST 24 HOURS:      DRLG 5730-5837'    RS SURVEY    DRLG 5837-6178'    RS    DRLG 6178-6207'    CHANGE FUEL FILTER  
 ON DIESEL TANK      DRLG 6207-6265'

DATE: 2/16/97      DEPTH:                    6586      ACTIVITY AT REPORT TIME: TIH  
 HOURS:                    12.25      PROGRESS:                    321 ft  
 MW:                            8.4      DAILY COST:    \$11,845.00      CUMM COST :                    \$287,596.60

ACTIVITY LAST 24 HOURS:      DRLG    RS    SURVEY    DRLG    TRIP FOR BIT #3    W&R 71' TO BTM    DRLG    RS    DRLG 6494-6586'  
 PMP FLAG - TRIP F/HOLE IN DRL STRING

DATE: 2/17/97      DEPTH:                    6920      ACTIVITY AT REPORT TIME: DRLG  
 HOURS:                    20.75      PROGRESS:                    334 ft  
 MW:                            9.1      DAILY COST:    \$13,341.10      CUMM COST :                    \$300,937.70

ACTIVITY LAST 24 HOURS:      TIH 38 STD DWN    WASH 15' TO BTM    DRLG 6585-6650'    RS    DRLG 6650-6846'    WORK ON ROT  
 HEAD    DRLG 6846-6862'    RS    DRLG 6862-6920'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/18/97      DEPTH: 7043      ACTIVITY AT REPORT TIME: PU KELLY TO WASH 60' TO BTM  
 HOURS: 7.75      PROGRESS: 123 ft  
 MW: 8.8      DAILY COST: \$7,622.80      CUMM COST : \$308,560.50

ACTIVITY LAST 24 HOURS: DRLG REPAIR PMP DRLG 6940-6983' RS. FUNC TEST ANN & PIPE RAMS DRLG 6983-7043'  
 TOO H LD 2 DC'S & PU 2 DC'S. WASHED BOX & PIN TIH

DATE: 2/19/97      DEPTH: 7287      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.25      PROGRESS: 244 ft  
 MW: 8.8      DAILY COST: \$10,374.00      CUMM COST : \$318,934.50

ACTIVITY LAST 24 HOURS: REAM 41' TO BTM RIG REPAIR - VIB HOSE REAM 13' TO BTM DLRG 7043-7136' RS - TELEDRIFT  
 SURVEY DRLG 7136-7144' REPAIR WASHED SEAT STANDBY PMP DRLG 7144-7287'

DATE: 2/20/97      DEPTH: 7322      ACTIVITY AT REPORT TIME: TIH. INSPECTING BHA  
 HOURS: 3.50      PROGRESS: 35 ft  
 MW: 8.8      DAILY COST: \$4,328.60      CUMM COST : \$323,263.10

ACTIVITY LAST 24 HOURS: DRLG 7287-7305' REPAIR PMP. TELEDRIFT SURVEY DRLG 7305-7322' RS. CHECK PMP F/PRESS  
 LOSS TOO H & LD 6 JTS DP & 16 DC'S W/WASHED BOXES & FACES. INSPECT REST OF BHA & LD MM &  
 TELEDRIFT RS



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/21/97      DEPTH: 7431      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 7.50      PROGRESS: 109 ft  
 MW: 9.0      DAILY COST: \$4,973.90      CUMM COST : \$328,237.00

ACTIVITY LAST 24 HOURS: LD BAD DC'S WO DC'S PU BHA TIH RS BREAK CIRC & WASH 30' TO BTM DRLG TO 7431'

DATE: 2/22/97      DEPTH: 7755      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 23.25      PROGRESS: 324 ft  
 MW: 9.1      DAILY COST: \$12,636.00      CUMM COST : \$340,873.00

ACTIVITY LAST 24 HOURS: DRLG 7431-7459 RS DRLG 7459-7676' RS DRLG 7676-7755'

DATE: 2/23/97      DEPTH: 7900      ACTIVITY AT REPORT TIME: POOH FOR LOGS  
 HOURS: 15.25      PROGRESS: 145 ft  
 MW: 9.1      DAILY COST: \$10,303.40      CUMM COST : \$351,176.40

ACTIVITY LAST 24 HOURS: DRLG 7755-7801' RS 7801-7900' CIRC & COND SHORT TRIP 15 STDS CIRC & COND SURVEY (DROPPED) POOH

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/24/97      DEPTH: 7965      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 6.00      PROGRESS: 65 ft  
 MW: 9.3      DAILY COST: \$21,096.90      CUMM COST : \$372,273.30

ACTIVITY LAST 24 HOURS: POOH FOR LOGS RU SCHLUMBERGER & RAN HIP/HALS. LOGGERS TD 7904'. MAX TEMP 160 TIH  
 CHANGE MUD PMPS TIH W&R 100' TO BTM DRLG 7900-7965'

DATE: 2/25/97      DEPTH: 8210      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.00      PROGRESS: 245 ft  
 MW: 9.3      DAILY COST: \$10,008.10      CUMM COST : \$382,281.40

ACTIVITY LAST 24 HOURS: DRLG 7965-7975 RIG REPAIR - PMP PACKING DRLG 7975-8023' RIG REPAIR - LINER GASKET MAIN  
 PMP RS DRLG 8023-8907' RIG REPAIR - LINER COOLER LINES DRLG 8097-8153' RS RIG  
 REPAIR - PMP DRLG 8153-8210' DRILLING BREAK 8182-8200'

DATE: 2/26/97      DEPTH: 8440      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 21.75      PROGRESS: 230 ft  
 MW: 9.6      DAILY COST: \$12,625.50      CUMM COST : \$394,906.90

ACTIVITY LAST 24 HOURS: DRLG 8210-8231' REPAIR PMP DRLG 8231-8272' RS REPAIR U JOINT ROTARY TABLE DRLG  
 8272- RS DRLG TO 8440'



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 2/27/97      DEPTH: 8584      ACTIVITY AT REPORT TIME: DRLG  
HOURS: 19.75      PROGRESS: 144 ft  
MW: 9.7      DAILY COST: \$10,460.20      CUMM COST : \$405,367.10

ACTIVITY LAST 24 HOURS: DRLG 8440-8459' CIRC & SURVEY 2 8418' 1 1/4 DEGS DRLG 8459-8490' RS DRLG 8490-8509'  
(LOST RET) MIX & PMP LCM TO GET FULL RET DRLG 8509-8584' LOST 450 MUD @ 8509'

DATE: 2/28/97      DEPTH: 8785      ACTIVITY AT REPORT TIME: DRLG  
HOURS: 20.50      PROGRESS: 201 ft  
MW: 10.4      DAILY COST: \$19,302.60      CUMM COST : \$424,669.70

ACTIVITY LAST 24 HOURS: RS DRLG 8584-8678' RS DRLG 8678-8721' WORK ON MUD PMP RS DRLG 8721-8785'

DATE: 3/1/97      DEPTH: 8936      ACTIVITY AT REPORT TIME: DRLG  
HOURS: 23.00      PROGRESS: 151 ft  
MW: 11.0      DAILY COST: \$6,133.10      CUMM COST : \$430,802.80

ACTIVITY LAST 24 HOURS: DRLG 8785-8803' RS DRLG 8803-8898' RS DRLG 8898-8936'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/2/97      DEPTH: 8952      ACTIVITY AT REPORT TIME: WORK ON PMP  
 HOURS: 4.00      PROGRESS: 16 ft  
 MW: 10.6      DAILY COST: \$16,837.90      CUMM COST : \$447,640.70

ACTIVITY LAST 24 HOURS: DRLG 8936-8940' RIG REPAIR - MUD PMP DRLG 8940-8952' RIG REPAIR - MUD PMP CIRC  
 DROP SURVEY & TRIP FOR NEW BIT RIG REPAIR - MUD PMP

DATE: 3/3/97      DEPTH: 9056      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 12.00      PROGRESS: 104 ft  
 MW: 10.2      DAILY COST: \$10,206.40      CUMM COST : \$457,847.10

ACTIVITY LAST 24 HOURS: REPAIR MUD PMP TIH CIRC BTMS UP WORK ON ROT HEAD DRLG 8952-8993' RS DRLG  
 8993-9056'

DATE: 3/4/97      DEPTH: 9079      ACTIVITY AT REPORT TIME: TIRP OUT W/FISH  
 HOURS: 3.00      PROGRESS: 23 ft  
 MW: 11.1      DAILY COST: \$3,081.60      CUMM COST : \$460,928.70

ACTIVITY LAST 24 HOURS: DRLG CIRC TRIP OUT TWISTED OFF PU / LD FISHING TOOLS TRIP IN CIRC WORK OVER  
 FISH CIRC TRIP OUT W/FISH WORK THRU TIGHT HOLE @ 5217' TRIP OUT W/FISH



WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/8/97      DEPTH: 9487      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 8.00      PROGRESS: 62 ft  
 MW: 11.3      DAILY COST: \$16,232.20      CUMM COST : \$511,155.60

ACTIVITY LAST 24 HOURS: DRLG 9425-9427' LOST CIRC. MIX & PMP LCM CIRC & COND MUD W/FULL RET CIRC THRU CHOKE & BUILD MUD WT DRLG 9427-9433' RS DRLG 9433-9455' RIG REPAIR (MUD PMPS) DRLG 9455-9473' RIG REPAIR (MUD PMPS) DRLG 9473-9487'. LOST +/- 350 BBL MUD @ 9427'. WELL STARTED TO FLOW WHEN MUD GOT BELOW 11 PPG.

DATE: 3/9/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LOGGING  
 HOURS: 2.00      PROGRESS: 13 ft  
 MW: 11.7      DAILY COST: \$18,818.20      CUMM COST : \$529,973.80

ACTIVITY LAST 24 HOURS: DRLG 9487-9500' CIRC & COND SHORT TRIP C&C. SPOT 50 VIS 100 BBL ON BTM POOH & SLM. NO CORR LOGGING W/SCHLUMBERGER. LOGGER TD 9502'. RAN PLATFORM EXPRESS. 2ND RUN WILL BE SIDE WALL CORE

DATE: 3/10/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LOGGING  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 11.7      DAILY COST: \$9,830.40      CUMM COST : \$539,804.20

ACTIVITY LAST 24 HOURS: LOGGING W/SCHLUMBERGER. RUNNING SIDE WALL CORES



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 3/11/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LD DP  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 11.7      DAILY COST: \$39,158.90      CUMM COST : \$578,963.10

ACTIVITY LAST 24 HOURS: LOGGING W/SCHLUMBERGER (ROT SIDEWALL CORES) TIH CIRC & COND MUD F/5 1/2" CSG LD DP.

DATE: 3/12/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ND BOP'S  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 10.8      DAILY COST: \$152,167.00      CUMM COST : \$731,130.10

ACTIVITY LAST 24 HOURS: LD DP & DC. PULL EAR RING RU T&M & RAN 243 JTS 5 1/2" 20# N80 CSG W/HOWCO SHOE & FLOAT, 1 SHOE JT, DV TOOL @ 5994'. TOTAL 9524.54'. 35 CENT ON EVERY 3RD JT F/TD CIRC & COND F/CMT. CSG STUCK @ 9498' CMT 1ST STAGE W/HALLIBURTON. PMPD 20 BB MUD F/20 BFW. 1350 SX 50/50 POZ W/2% GEL, .3% VERSASET, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .35 HR5, 2% MICROBOND, 1/4 #/SX FLOCELE, 1#/SX GROMULITE. WT 14.2, Y 1.36. DROP PLUG & DISPL W/90 BBLs WTR & 220 BBLs MUD. PLUG BUMPED. FLOATS HELD. DROP BOMB & OPEN DV W/125 PSI. CIRC W/RIG PMP CIRC F/2ND STAGE +/- 40 BBL CMT TO SURF CMT 2ND STAGE. P,PD 20 BBLs MUD F/20 BFW. 350 SX PREM "H" 16% GEL, .5% HR7, WT 11.4, Y 3.18. 1020 SXS 50/50 W/2% GEL, .3% VERSASETE, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .3% HR5, 2% MICROBOND. WT 14.2, Y 1.36. 100 SX PREM "H" W/4% HALAD 322. WT 16.4, Y 1.06. DROP PLUG & DISPL W/140 BBLs. PLUG BUMPED. DV CLOSED W/1500 PSI. REL PRESS. DV HELD. 5 BBLs CMT TO SURF. JOB COMPL @ 03:38 3/12/97. HAD GOOD ROT THRU OUT JOB ND BOP'S TO SET CSG SLIPS

DATE: 3/13/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: RIG DOWN  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$9,721.60      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: SET SLIPS ON 5 1/2" CSG W/175,000 & CUT OFF. CLEAN MUD PITS. RIG RELEASED @ 13:00 3/12/97. RIG MOVING TO MORGAN STATE #5-36 ON 3/13/97.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455**

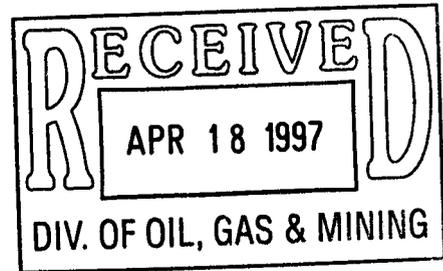
4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ, Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Perforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Perforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>First production</u>	
<input type="checkbox"/> Other _____		Date of work completion <u>4/9/97</u>	
Approximate date work will start _____		Report results of <b>Multiple Completions and Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The date of first production for the referenced well was 4/9/97.



13. Name & Signature Bonnie Carson Title Senior Environmental Analyst Date 4/17/97

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476**

4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ,Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

Abandon  New Construction  
 Repair Casing  Pull or Alter Casing  
 Change of Plans  Recomplete  
 Convert to Injection  Perforate  
 Fracture Treat or Acidize  Vent or Flare  
 Multiple Completion  Water Shut-Off  
 Other \_\_\_\_\_

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

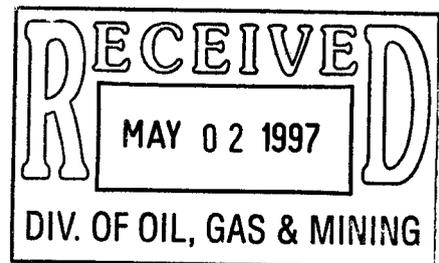
Abandon\*  New Construction  
 Repair Casing  Pull or Alter Casing  
 Change of Plans  Perforate  
 Convert to Injection  Vent or Flare  
 Fracture Treat or Acidize  Water Shut-Off  
 Other Completion operations

Date of work completion 4/15/97

Report results of **Multiple Completions and Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for completion operations performed on the subject well.



13. Name & Signature Bonnie Carson Title Senior Environmental Analyst Date 4/29/97

(This space for State use only)

Bonne

**PERC** WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 2/4/97      **DEPTH:** 43      **ACTIVITY AT REPORT TIME:** WAIT ON ROTARY TOOLS  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$17,612.10      **CUMM COST :** \$17,612.10

**ACTIVITY LAST 24 HOURS:** RU BILL MARTIN JR RAT HOLE DRLG SER. DRILL 24" HOLE TO 43' 2/2/97. RIH W/43' 16" .25 WALL THICK COND PIPE. CMT W/3 YDS REDDI MIX 2/3/97

**DATE:** 2/7/97      **DEPTH:** 56      **ACTIVITY AT REPORT TIME:** RURT. PREP TO SPUD  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$843.70      **CUMM COST :** \$18,455.80

**ACTIVITY LAST 24 HOURS:** RDRT F/NBU 229. MOVE RIG TO MORGAN STATE 4-36. RURT. VERY MUDDY SLICK CONDITIONS

**DATE:** 2/8/97      **DEPTH:** 1204      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 19.00      **PROGRESS:** 1148 ft  
**MW:** 0.0      **DAILY COST:** \$21,942.80      **CUMM COST :** \$40,398.60

**ACTIVITY LAST 24 HOURS:** RU PU BHA DRLG PU ROT HEAD F/AIR MIST DRLG SURVEY RS DRLG 315-632' SURVEY DRLG 632-865' CHANGE ROT HEAD RUBB F/DP DRLG 865-1204'



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 2/9/97      **DEPTH:** 2500      **ACTIVITY AT REPORT TIME:** MAKE SHORT TRIP F/SURF CSG JOB  
**HOURS:** 19.00      **PROGRESS:** 1296 ft  
**MW:** 0.0      **DAILY COST:** \$52,616.80      **CUMM COST :** \$93,015.40

**ACTIVITY LAST 24 HOURS:** DRLG 1204-1422' SURVEY RS DRLG 1422-1822' REPAIR BLOOIE LINE DRLG 1822-1916' SURVEY DRLG 1916-2413' SURVEY RS DRLG 2413-2500' CSG PT. CIRC FOR SHORT TRIP SHORT TRIP. DRLG BREAK F/1587-1607'. STARTED MAKING H2O @ THIS BREAK.

**DATE:** 2/10/97      **DEPTH:** 2500      **ACTIVITY AT REPORT TIME:** WELD ON WELLHEAD  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$60,586.10      **CUMM COST :** \$153,601.50

**ACTIVITY LAST 24 HOURS:** SHORT TRIP TO DC'S. (SLM NO CORR) CIRC & COND POOH F/CSG LD 8" DC & SHOCK SUB RU T&M CASERS & RAN 59 JTS 8 5/8" 52# K55 ST&C W/HOWCO SHOE & FLOAT (1 SHOE JT). TOTAL STRING 2494.21' 18 CENT CIRC & COND CMT W/HALLIBURTON. PMPD 20 FW LEAD 755 SX HLC W/10# SX GILSONITE, 3% SALT, 2% GRANULITE, 1% CX-1, 1/4# SX FLOCELE, WT 12.1, Y 2.19. TAIL W/370 SX TYPE V W/2% CC, 1/4# SX FLOCELE, WT 15.6, Y 1.18. DROP PLUG & DISPL W/155 BBL WTR. PLUG BUMPED FLOATS HELD. +/- 25 BBLs CMT TO SURF. COMP @ 6:15 PM 2/9/97 WOC. 1" TOP JOB W/200 SX TYPE V. CMT FELL 20' CUT OFF 8 5/8" CSG & WELD ON 11" 5000 WELLHEAD.

**DATE:** 2/11/97      **DEPTH:** 2770      **ACTIVITY AT REPORT TIME:** DRLG W/AERATED WTR  
**HOURS:** 3.50      **PROGRESS:** 270 ft  
**MW:** 8.4      **DAILY COST:** \$14,797.20      **CUMM COST :** \$168,398.70

**ACTIVITY LAST 24 HOURS:** NU BOP'S PRESS TEST BOP'S TO 3000#, HYDRIL 1500#, CHOKE 3000#, CSG 15003 (WITH DAVE HACKFORD UTAH STATE) HOOK UP FLARE LINES & PU BHA RS - PUMP COOLER RS TIH WASH OUT MOUSE HOLE DRILL OUT CMT FLOAT & SHOE 2418-2495' DRLG 2500-2770'



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 2/12/97      **DEPTH:** 4005      **ACTIVITY AT REPORT TIME:** DRLG W/AERATED WTR  
**HOURS:** 21.50      **PROGRESS:** 1235 ft  
**MW:** 8.4      **DAILY COST:** \$36,697.10      **CUMM COST :** \$205,095.80

**ACTIVITY LAST 24 HOURS:** DRLG 2770-2893' RS DRLG 2893-2924' SURVEY @ 2850' 2 DEGS DRLG 2924-3172' SURVEY @ 3097' 1 1/2 DEGS DRLG 3172-3635' SURVEY @ 3608' 1 1/2 DEGS RS DRLG 3635-4005'

**DATE:** 2/13/97      **DEPTH:** 5031      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 21.00      **PROGRESS:** 1026 ft  
**MW:** 8.5      **DAILY COST:** \$30,003.50      **CUMM COST :** \$235,099.30

**ACTIVITY LAST 24 HOURS:** DRLG 4005-4162' RS SURVEY DRLG 4162-4657' SURVEY DRLG 4657-4906' SURVEY RS DRLG 4906-4937' SURVEY DRLG 4937-5031'. TOP WASATCH 4624'

**DATE:** 2/14/97      **DEPTH:** 5730      **ACTIVITY AT REPORT TIME:** DRLG W/AERATED WTR  
**HOURS:** 22.00      **PROGRESS:** 699 ft  
**MW:** 8.6      **DAILY COST:** \$22,290.50      **CUMM COST :** \$257,389.80

**ACTIVITY LAST 24 HOURS:** DRLG 5031-5432' RS SURVEY @ 5367' 4 DEGS DRLG 5432-5556' SURVEY @ 5490' 3 3/4 DEGS RS DRLG 5556-5730'. WASATCH 80% SHALE, 20% SS

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 2/15/97      **DEPTH:** 6265      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 22.25      **PROGRESS:** 535 ft  
**MW:** 0.0      **DAILY COST:** \$18,361.80      **CUMM COST :** \$275,751.60

**ACTIVITY LAST 24 HOURS:** DRLG 5730-5837' RS SURVEY DRLG 5837-6178' RS DRLG 6178-6207' CHANGE FUEL FILTER  
ON DIESEL TANK DRLG 6207-6265'

**DATE:** 2/16/97      **DEPTH:** 6586      **ACTIVITY AT REPORT TIME:** TIH  
**HOURS:** 12.25      **PROGRESS:** 321 ft  
**MW:** 8.4      **DAILY COST:** \$11,845.00      **CUMM COST :** \$287,596.60

**ACTIVITY LAST 24 HOURS:** DRLG RS SURVEY DRLG TRIP FOR BIT #3 W&R 71' TO BTM DRLG RS DRLG 6494-6586'  
PMP FLAG - TRIP F/HOLE IN DRL STRING

**DATE:** 2/17/97      **DEPTH:** 6920      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 20.75      **PROGRESS:** 334 ft  
**MW:** 9.1      **DAILY COST:** \$13,341.10      **CUMM COST :** \$300,937.70

**ACTIVITY LAST 24 HOURS:** TIH 38 STD DWN WASH 15' TO BTM DRLG 6585-6650' RS DRLG 6650-6846' WORK ON ROT  
HEAD DRLG 6846-6862' RS DRLG 6862-6920'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/18/97      DEPTH: 7043      ACTIVITY AT REPORT TIME: PU KELLY TO WASH 60' TO BTM  
 HOURS: 7.75      PROGRESS: 123 ft  
 MW: 8.8      DAILY COST: \$7,622.80      CUMM COST : \$308,560.50

ACTIVITY LAST 24 HOURS: DRLG REPAIR PMP DRLG 6940-6983' RS. FUNC TEST ANN & PIPE RAMS DRLG 6983-7043'  
 TOO H LD 2 DC'S & PU 2 DC'S. WASHED BOX & PIN TIH

DATE: 2/19/97      DEPTH: 7287      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.25      PROGRESS: 244 ft  
 MW: 8.8      DAILY COST: \$10,374.00      CUMM COST : \$318,934.50

ACTIVITY LAST 24 HOURS: REAM 41' TO BTM RIG REPAIR - VIB HOSE REAM 13' TO BTM DLRG 7043-7136' RS - TELEDRIPT  
 SURVEY DRLG 7136-7144' REPAIR WASHED SEAT STANDBY PMP DRLG 7144-7287'

DATE: 2/20/97      DEPTH: 7322      ACTIVITY AT REPORT TIME: TIH. INSPECTING BHA  
 HOURS: 3.50      PROGRESS: 35 ft  
 MW: 8.8      DAILY COST: \$4,328.60      CUMM COST : \$323,263.10

ACTIVITY LAST 24 HOURS: DRLG 7287-7305' REPAIR PMP. TELEDRIPT SURVEY DRLG 7305-7322' RS. CHECK PMP F/PRESS  
 LOSS TOO H & LD 6 JTS DP & 16 DC'S WASHED BOXES & FACES. INSPECT REST OF BHA & LD MM &  
 TELEDRIPT RS



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/21/97      DEPTH: 7431      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 7.50      PROGRESS: 109 ft  
 MW: 9.0      DAILY COST: \$4,973.90      CUMM COST : \$328,237.00

ACTIVITY LAST 24 HOURS: LD BAD DC'S WO DC'S PU BHA TIH RS BREAK CIRC & WASH 30' TO BTM DRLG TO 7431'

DATE: 2/22/97      DEPTH: 7755      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 23.25      PROGRESS: 324 ft  
 MW: 9.1      DAILY COST: \$12,636.00      CUMM COST : \$340,873.00

ACTIVITY LAST 24 HOURS: DRLG 7431-7459 RS DRLG 7459-7676' RS DRLG 7676-7755'

DATE: 2/23/97      DEPTH: 7900      ACTIVITY AT REPORT TIME: POOH FOR LOGS  
 HOURS: 15.25      PROGRESS: 145 ft  
 MW: 9.1      DAILY COST: \$10,303.40      CUMM COST : \$351,176.40

ACTIVITY LAST 24 HOURS: DRLG 7755-7801' RS 7801-7900' CIRC & COND SHORT TRIP 15 STDS CIRC & COND SURVEY (DROPPED) POOH

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/24/97      DEPTH: 7965      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 6.00      PROGRESS: 65 ft  
 MW: 9.3      DAILY COST: \$21,096.90      CUMM COST : \$372,273.30

ACTIVITY LAST 24 HOURS: POOH FOR LOGS RU SCHLUMBERGER & RAN HIP/HALS. LOGGERS TD 7904'. MAX TEMP 160 TIH  
 CHANGE MUD PMPS TIH W&R 100' TO BTM DRLG 7900-7965'

DATE: 2/25/97      DEPTH: 8210      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.00      PROGRESS: 245 ft  
 MW: 9.3      DAILY COST: \$10,008.10      CUMM COST : \$382,281.40

ACTIVITY LAST 24 HOURS: DRLG 7965-7975 RIG REPAIR - PMP PACKING DRLG 7975-8023' RIG REPAIR - LINER GASKET MAIN  
 PMP RS DRLG 8023-8907' RIG REPAIR - LINER COOLER LINES DRLG 8097-8153' RS RIG  
 REPAIR - PMP DRLG 8153-8210' DRILLING BREAK 8182-8200'

DATE: 2/26/97      DEPTH: 8440      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 21.75      PROGRESS: 230 ft  
 MW: 9.6      DAILY COST: \$12,625.50      CUMM COST : \$394,906.90

ACTIVITY LAST 24 HOURS: DRLG 8210-8231' REPAIR PMP DRLG 8231-8272' RS REPAIR U JOINT ROTARY TABLE DRLG  
 8272- RS DRLG TO 8440'



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 2/27/97      DEPTH: 8584      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 19.75      PROGRESS: 144 ft  
 MW: 9.7      DAILY COST: \$10,460.20      CUMM COST : \$405,367.10

ACTIVITY LAST 24 HOURS: DRLG 8440-8459' CIRC & SURVEY 2 8418' 1 1/4 DEGS DRLG 8459-8490' RS DRLG 8490-8509' (LOST RET) MIX & PMP LCM TO GET FULL RET DRLG 8509-8584' LOST 450 MUD @ 8509'

DATE: 2/28/97      DEPTH: 8785      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.50      PROGRESS: 201 ft  
 MW: 10.4      DAILY COST: \$19,302.60      CUMM COST : \$424,669.70

ACTIVITY LAST 24 HOURS: RS DRLG 8584-8678' RS DRLG 8678-8721' WORK ON MUD PMP RS DRLG 8721-8785'

DATE: 3/1/97      DEPTH: 8936      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 23.00      PROGRESS: 151 ft  
 MW: 11.0      DAILY COST: \$6,133.10      CUMM COST : \$430,802.80

ACTIVITY LAST 24 HOURS: DRLG 8785-8803' RS DRLG 8803-8898' RS DRLG 8898-8936'



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/2/97      DEPTH: 8952      ACTIVITY AT REPORT TIME: WORK ON PMP  
 HOURS: 4.00      PROGRESS: 16 ft  
 MW: 10.6      DAILY COST: \$16,837.90      CUMM COST : \$447,640.70

ACTIVITY LAST 24 HOURS: DRLG 8936-8940' RIG REPAIR - MUD PMP    DRLG 8940-8952' RIG REPAIR - MUD PMP    CIRC  
 DROP SURVEY & TRIP FOR NEW BIT    RIG REPAIR - MUD PMP

DATE: 3/3/97      DEPTH: 9056      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 12.00      PROGRESS: 104 ft  
 MW: 10.2      DAILY COST: \$10,206.40      CUMM COST : \$457,847.10

ACTIVITY LAST 24 HOURS: REPAIR MUD PMP 8993-9056'    TIH    CIRC BTMS UP    WORK ON ROT HEAD    DRLG 8952-8993'    RS    DRLG

DATE: 3/4/97      DEPTH: 9079      ACTIVITY AT REPORT TIME: TIRP OUT W/FISH  
 HOURS: 3.00      PROGRESS: 23 ft  
 MW: 11.1      DAILY COST: \$3,081.60      CUMM COST : \$460,928.70

ACTIVITY LAST 24 HOURS: DRLG    CIRC    TRIP OUT TWISTED OFF    PU / LD FISHING TOOLS    TRIP IN    CIRC    WORK OVER  
 FISH    CIRC    TRIP OUT W/FISH    WORK THRU TIGHT HOLE @ 5217'    TRIP OUT W/FISH

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

W1%:

DATE: 3/5/97      DEPTH:                    9153      ACTIVITY AT REPORT TIME: DRLG  
 HOURS:                    9.50      PROGRESS:                    74 ft  
 MW:                            11.3      DAILY COST:    \$14,229.60      CUMM COST :                    \$475,158.30

ACTIVITY LAST 24 HOURS:      TOOH W/FISH & LD SAME      TOOH W/DC'S      CHANGE BITS.      F3 WASHED PIN      TIH TO 2500'      BREAK  
 CIRC      RS      REPAIR PMP      TIH      WASH 40' TO BTM      RS      DRLG 9079-9153'.      LOST +/- 50 BBLs MUD  
 @ 9143'.

DATE: 3/6/97      DEPTH:                    9313      ACTIVITY AT REPORT TIME: DRLG  
 HOURS:                    22.00      PROGRESS:                    160 ft  
 MW:                            11.2      DAILY COST:    \$9,219.40      CUMM COST :                    \$484,377.70

ACTIVITY LAST 24 HOURS:      DRLG 9153-9182'      RS      DRLG 9182-9257'      RS      DRLG 9257-9268'      RS.      FUNCTION TEST BOP'S  
 DRLG 9268-9313'

DATE: 3/7/97      DEPTH:                    9425      ACTIVITY AT REPORT TIME: DRLG  
 HOURS:                    21.75      PROGRESS:                    112 ft  
 MW:                            11.7      DAILY COST:    \$10,545.70      CUMM COST :                    \$494,923.40

ACTIVITY LAST 24 HOURS:      DRLG F/9313' - 9331'.      SERVICE RIG.      DRLG F/9331' - 9360'.      RIG REPAIR - DRIVE LINE U JOINT.  
 DRLG F/9360' - 9392'.      RIG SERVICE.      DRLG F/9392' - 9425'.

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/8/97      DEPTH: 9487      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 8.00      PROGRESS: 62 ft  
 MW: 11.3      DAILY COST: \$16,232.20      CUMM COST : \$511,155.60

ACTIVITY LAST 24 HOURS: DRLG 9425-9427' LOST CIRC. MIX & PMP LCM CIRC & COND MUD W/FULL RET CIRC THRU CHOKE & BUILD MUD WT DRLG 9427-9433' RS DRLG 9433-9455' RIG REPAIR (MUD PMPS) DRLG 9455-9473' RIG REPAIR (MUD PMPS) DRLG 9473-9487'. LOST +/- 350 BBL MUD @ 9427'. WELL STARTED TO FLOW WHEN MUD GOT BELOW 11 PPG.

DATE: 3/9/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LOGGING  
 HOURS: 2.00      PROGRESS: 13 ft  
 MW: 11.7      DAILY COST: \$18,818.20      CUMM COST : \$529,973.80

ACTIVITY LAST 24 HOURS: DRLG 9487-9500' CIRC & COND SHORT TRIP C&C. SPOT 50 VIS 100 BBL ON BTM POOH & SLM. NO CORR LOGGING W/SCHLUMBERGER. LOGGER TD 9502'. RAN PLATFORM EXPRESS. 2ND RUN WILL BE SIDE WALL CORE

DATE: 3/10/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LOGGING  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 11.7      DAILY COST: \$9,830.40      CUMM COST : \$539,804.20

ACTIVITY LAST 24 HOURS: LOGGING W/SCHLUMBERGER. RUNNING SIDE WALL CORES

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 3/11/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** LD DP  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 11.7      **DAILY COST:** \$39,158.90      **CUMM COST :** \$578,963.10

**ACTIVITY LAST 24 HOURS:** LOGGING W/SCHLUMBERGER (ROT SIDEWALL CORES) TIH CIRC & COND MUD F/5 1/2" CSG LD DP.

**DATE:** 3/12/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ND BOP'S  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 10.8      **DAILY COST:** \$152,167.00      **CUMM COST :** \$731,130.10

**ACTIVITY LAST 24 HOURS:** LD DP & DC. PULL EAR RING RU T&M & RAN 243 JTS 5 1/2" 20# N80 CSG W/HOWCO SHOE & FLOAT, 1 SHOE JT, DV TOOL @ 5994'. TOTAL 9524.54'. 35 CENT ON EVERY 3RD JT F/TD CIRC & COND F/CMT. CSG STUCK @ 9498' CMT 1ST STAGE W/HALLIBURTON. PMPD 20 BB MUD F/20 BFW, 1350 SX 50/50 POZ W/2% GEL, .3% VERSASET, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .35 HR5, 2% MICROBOND, 1/4 #/SX FLOCELE, 1#/SX GROMULITE. WT 14.2, Y 1.36. DROP PLUG & DISPL W/90 BBLs WTR & 220 BBLs MUD. PLUG BUMPED. FLOATS HELD. DROP BOMB & OPEN DV W/125 PSI. CIRC W/RIG PMP CIRC F/2ND STAGE +/- 40 BBL CMT TO SURF CMT 2ND STAGE. P,PD 20 BBLs MUD F/20 BFW. 350 SX PREM "H" 16% GEL, .5% HR7, WT 11.4, Y 3.18. 1020 SXS 50/50 W/2% GEL, .3% VERSASETE, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .3% HR5, 2% MICROBOND. WT 14.2, Y 1.36. 100 SX PREM "H" W/4% HALAD 322. WT 16.4, Y 1.06. DROP PLUG & DISPL W/140 BBLs. PLUG BUMPED. DV CLOSED W/1500 PSI. REL PRESS. DV HELD. 5 BBLs CMT TO SURF. JOB COMPL @ 03:38 3/12/97. HAD GOOD ROT THRU OUT JOB ND BOP'S TO SET CSG SLIPS

**DATE:** 3/13/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** RIG DOWN  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$9,721.60      **CUMM COST :** \$740,851.70

**ACTIVITY LAST 24 HOURS:** SET SLIPS ON 5 1/2" CSG W/175,000 & CUT OFF. CLEAN MUD PITS. RIG RELEASED @ 13:00 3/12/97. RIG MOVING TO MORGAN STATE #5-36 ON 3/13/97.

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 3/26/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** SETTING SURFACE FACILITIES  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$740,851.70

**ACTIVITY LAST 24 HOURS:** 03/17/97 THROUGH 03/26/97 - SETTING SURFACE FACILITIES. WOC

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**DATE:** 3/27/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:**  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$740,851.70

**ACTIVITY LAST 24 HOURS:** 03/27/97 THROUGH 04/02/97 - FINISH SETTING SURFACE FACILITIES.

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**DATE:** 4/3/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** WAITING ON COMPLETION RIG  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$740,851.70

**ACTIVITY LAST 24 HOURS:** 04/03/97 AND 04/04/97 - WAITING ON COMPLETION RIG

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WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/5/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO PU TUBING  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,314.00      CUMM COST : \$744,165.70

ACTIVITY LAST 24 HOURS: MIRU COLORADO WELL SERVICE (CWS) RIG #26. SDFN

DATE: 4/6/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO DRILL OUT DV COLLAR  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,540.00      CUMM COST : \$747,705.70

ACTIVITY LAST 24 HOURS: RU CWS #26. PU 4-5/8" MILL BIT SUB. RU & TIH W/ 2-7/8" TBG, TAG @ 5918'. PU STRIPING HEAD & POWER SWIVEL. SDFN

DATE: 4/7/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO LD TBG & TOO H  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,975.00      CUMM COST : \$751,680.70

ACTIVITY LAST 24 HOURS: BREAK CIRC. DRLG CMT FROM 5918' TO 5997'. DRLG DV TOOL @ 5998'. FINISH TIH TO 9357'. DRLG PLUG & CMT FROM 9357'-9410'. DISPL W/ 2% KCL FILTER WTR 200 BBLs. LD 5 JTS. SDFN

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/8/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO PRESS TST CSG  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,150.00      CUMM COST : \$754,830.70

ACTIVITY LAST 24 HOURS: LD 7 JTS 2-7/8" TBG. TOOH - RU SCHLUMBERGER & RUN BOND LOG W/1000# PRESS ON CSG. RUN LOGS FROM 9410' TO SURFACE. SDFN. TOC 600 - GOOD BOND

DATE: 4/9/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: BLOWING TO PIT ON 24/64" CHK  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$29,274.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: PRESS TST CSG TO 5000 PSI. RU SCHLUMBERGER & RIH PERF CSG @ 9235', 9234', 8902', 8875', 8854', 4 HOLES PER SHOT, 20 HOLES. RD SCHLUMBERGER. TIH TO 7335', BREAK DOWN PERF. BROKE @ 3000 PSI, 2 BPM @ 2600 PSI, 10 BBLs TOTAL. SI PRESS 0-2400, 5-2300, 10-2150, 15-2100. HANG OFF TBG. ND NU. LEAVE WELL OPEN TO PIT. GAS TO SURFACE UP CSG @ 4:30PM. 40 BW/HR. RD MO CSW #26. HOOK UP FLOW BACK LINE TO TBG, TP 210, CP 400 PSI, 15-20 BW/HR - 350 MCF @ 6:00 PM.

DATE: 4/10/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: SI WO FRAC  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: SITP 2300 PSI

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/11/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: MIRU SNUBBING UNIT  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: FLWG 100 MCF, 22 BLW, FTP 25#, CP 675# ON 24/64" CHK.

DATE: 4/12/97      DEPTH: 9500      ACTIVITY AT REPORT TIME:  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: FLWG 100 MCF, 10 BLW, FTP 30#, CP 800# ON 24/64" CHK.

DATE: 4/13/97      DEPTH: 9500      ACTIVITY AT REPORT TIME:  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$985.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: ICP 800 PSI, ITP 25 PSI ON 24/64" CHK. PULL CHK. RIH TO 3800'. DRY RUN, RAN IN, TAG GAS CUT FLUID @ 4000'. PULL FROM SN. KICK WELL OFF IN 30 MIN, CP 550 PSI, FTP 50 PSI, NO CHK. FLOW 1 HR 15 MIN, TBG DIED CP 480 PSI. MADE SWAB RUN, FL 6500'. PULLED FROM SN - KICKED OFF. MOVE SWABBER OFF. LEFT FLOWING TO PIT, NO CHK. RECOVERED 8 BLW.



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36		<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800		<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>			

DATE: 4/14/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO FRAC  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

**ACTIVITY LAST 24 HOURS:**

DATE: 4/15/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: FLOW BACK AFTER FRAC  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

**ACTIVITY LAST 24 HOURS:**

... THIS DAY'S REPORT IS TWO PAGES. ... SITP 1500 PSI. MIRU DOWELL FRAC EQUIP. PMPD STEP RATE & LEAK OFF TEST. FRAC PERFS 8854'-9235' W/ 31,800 GALS YF125 + 96,380# 20/40 SD (2-5 PPG) AVG 20 BPM @ 4700 PSI. ISIP 3400 PSI. RU SCHLUMBERGER. PERF 8339', 8498'-8502', 8615'-19', 8628'-31'. PRESS DECREASED 2700 PSI TO 2400 PSI. FRAC W/ 60,000 GAL YF125 + 183,000# 20/40 SD. AVG 20 BPM @ 4900 PSI. ISIP 3750 PSI. PERF 4 SPF 7908'-18' W/ 2-1/8" GUN. NO PRESS CHANGE. FRAC W/ 17,430 GALS YF125 + 52,400# 20/40 SD. AVG 18 BPM @ 4700 PSI. ISIP 3970 PSI. PERF 4 SPF 7399'-401", 7473'-74', 7484'-85', 7577'-78', 7612'-13', 7621'-22'. PRESS DECREASED 2400 PSI TO 2250 PSI AFTER PERF 7621'-22'. FRAC W/ 58,700 GALS YF125 + 187,000# 20/40 SD. AVG 22 BPM @ 4800 PSI, ISIP 2670 PSI. START FLOW BACK ON 24/64" CHK @ 11:45 PM.  
 1ST STAGE, NO TAGGED  
 2ND STAGE, TAGGED W/ 80 MCI IR-192  
 3RD STAGE, TAGGED W/ 65 MCI SC-46  
 4TH STAGE, TAGGED W/ 18 MCI SB-174  
 PMPD 4657 BW, REC 0 BW, TOTAL 4657 BWLTR  
 TIME...CP...TP...CHK. WTR...SD  
 11:45.....2500  
 12:00.....1700. 24/64. 50...MED  
 . 2:30.....1700. 24/64. 50...MED  
 12:45.....1700. 24/64. 25-50.MED  
 . 1:00.....1700. 18/64. 40...MED  
 . 2:00. 1925. 1700. 18/64. 40... HVY  
 . 3:00. 1725. 1650. 18/64. 40... M-H  
 . 4:00. 1850. 1600. 18/64. 35...MED  
 . 5:00. 1750. 1575. 18/64. 35...MED  
 . 6:00. 1750. 1575. 18/64. 25...MED  
 TOTAL 365 BW

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 4/16/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** FLOW BACK REPORT  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

TIME	CP	TP	CHK	WTR	SD
.6P.	.1550.	.2100.	.18/64.	.20.	.LGT
.7P.	.1750.	.2200.	.20/64.	.20.	.LGT
.8P.	.1750.	.2350.	.20/64.	.20.	.LGT
.9P.	.1850.	.2250.	.20/64.	.20.	.LGT
10P.	.2000.	.2300.	.20/64.	.20.	.MED
11P.	.2000.	.2300.	.20/64.	.20.	.LGT
12A.	.2100.	.2200.	.20/64.	.20.	.MED
.1A.	.2050.	.2200.	.20/64.	.20.	.MED
.2A.	.2050.	.2150.	.20/64.	.20.	.MED
.3A.	.2050.	.2150.	.20/64.	.20.	.MED
.4A.	.2100.	.2050.	.20/64.	.20.	.LGT
.5A.	.2000.	.2100.	.20/64.	.20.	.MED
.6A.	.2050.	.2200.	.20/64.	.20.	.LGT

TOTAL 480 BW  
 FLWG 2000 MCF, 480 BW, FTP 2050#, CP 2000#, 20/64" CHK, 24 HRS. TLTR 3812 BBLs. FLWG TO PIT.

**DATE:** 4/17/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ON PRODUCTION  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

FLWG 1000 MCF, 210 BW, FTP 2275#, CP 2800#, 10/64" CHK,

**DATE:** 4/18/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ON PRODUCTION  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

FLWG 669 MCF, 28 BW, FTP 2900#, CP 3400#, 10/64" CHK,

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 4/19/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ON PRODUCTION  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:** FLWG 1382 MCF, 152 BW, FTP 2725#, CP 3050#, 10/64" CHK,

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**DATE:** 4/20/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ON PRODUCTION  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:** FLWG 1583 MCF, 215 BW, FTP 2525#, CP 2750#, 11/64" CHK,

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**DATE:** 4/21/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** ON PRODUCTION  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:** FLWG 1642 MCF, 128 BW, FTP 2400#, CP 2600#, 11/64" CHK,

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# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/22/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: FLOWING  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: FLWG 1943 MCF, 163 BW, FTP 2100 PSI, CP 2250 PSI ON 12/64" CHK.

DATE: 4/23/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: FLOWING  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: FLWG 2274 MCF, 149 BW, FTP 1620 PSI, CP 1700 PSI ON 15-18/64" CHK. SPOT 3000

DATE: 4/24/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: PROD 2274 MCF, 149 BW, FTP 1620 PSI, CP 1700 PSI ON 15/64" CHK. FARO 2.6 MMCFD. . . . FINAL REPORT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

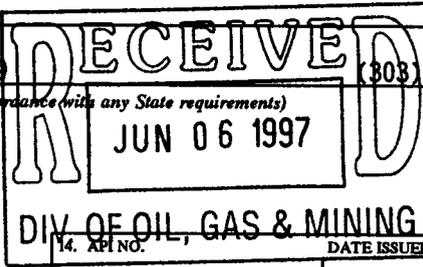
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 749, Denver, CO 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At surface: 1912' FSL & 649' FWL (NWSW)  
 At top prod. interval reported below  
 At total depth



5. LEASE DESIGNATION AND SERIAL NO.  
ML-22265  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
 7. UNIT AGREEMENT NAME  
N/A  
 8. FARM OR LEASE NAME  
Morgan State  
 9. WELL NO.  
#4-36  
 10. FIELD AND POOL, OR WILDCAT AND SURVEY OR AREA  
Natural Buttes Field  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 36-T9S-R21E  
 12. COUNTY  
Uintah  
 13. STATE  
Utah

15. DATE SPUNNED: 2/2/97  
 16. DATE T.D. REACHED: 3/9/97  
 17. DATE COMPL. (Ready to prod. or Plug & Abd.): 4/17/97  
 18. ELEVATIONS (DF, RKB, RT, GR, ETC.): 5028' GL  
 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 9500'  
 21. PLUG, BACK T.D., MD & TVD: 9410'  
 22. IF MULTIPLE COMPL., HOW MANY  
 23. INTERVALS DRILLED BY  
 ROTARY TOOLS: X  
 CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)  
9235 - 7399' Wasatch  
 25. WAS DIRECTIONAL SURVEY MADE  
Single Shot

26. TYPE ELECTRIC AND OTHER LOGS RUN  
HAES/LDT/CNL/GR/CAL; CCL/CBL/GR  
 27. Was Well Cored YES  NO   
 Drill System Test YES  NO  (See reverse side)

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"		43'	24"	3 yds Redi-mix	
8-5/8", K-55	32#	2494'	12-1/4"	See attached chrono - 2/10/97	
5-1/2", N-80	20#	9498'	7-7/8"	See attached chrono - 3/12/97	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	7320'	

31. PERFORATION RECORD (Interval, size and number)

9235', 9234', 8902', 8875', 8854' (4 spf/20 holes)	
8339', 8498-8502', 8615-19', 8628-31' (4 spf/48 holes)	
7399-401', 7473-74', 7484-85', 7577-78', 7612-13', 7621-22' (4 spf/52 holes); 7908-18' (4spf, 40holes)	

32. ACID. SHOT. FRACTURE. CEMENT SOUZZEE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9235'-8854'	See attached chrono 4/9.& 4/15/97
8339'-8631'	See attached chrono - 4/15/97
7399'-7622'	See attached chrono - 4/15/97

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)
4/9/97	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
4/25/97	24	18/64"		0	2359	117	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
1275#	1350#		0	2359	117	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Sold  
 TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
Chronological History, Core Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED: Sheila Bremer TITLE: Environmental & Safety Analyst DATE: 6/3/97

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachment. ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details for any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).	Formation	Top	Bottom	Description, contents, etc.	38. GEOLOGIC MARKERS		
					Name	Meas. Depth	Top True Vert. Depth
					Wasatch	4624'	
					Mesaverde	7324'	

# CORE LABORATORIES

**Company** : Coastal Oil & Gas Corporation  
**Well** : Morgan 4-36  
**Location** : Sec 36 T9S R21E  
**Co,State** : Uintah, Utah

**Field** :  
**Formation** :  
**Coring Fluid** : Water Base Mud  
**Elevation** :

**File No.:** 57122-8071  
**Date** : 11-Mar-1997  
**API No.:**  
**Analysts:** DF SS

## CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
Rotary Sidewalls								
1	2911.0	12.7	18.0	0.0	79.0	2.67	1.	Sst gry vf gr
2	2981.0						2.	Mud
3	3229.0	7.11	15.2	0.0	80.0	2.68	1.	Sst gry vf gr calc
4	3451.0	19.4	15.8	6.5	77.6	2.65	0.	Sst gry vf gr shy
5	3454.0	1.59	11.6	0.0	86.8	2.66	3.	Sst gry vf gr shy
6	7396.0	0.26	11.1	0.0	77.0	2.65	5.	Sst lt gry f gr
7I	7400.9	0.74	10.0	0.0	81.5	2.66	5.	Sst lt gry f gr
8	7473.0	1.24	8.9	0.0	64.6	2.65	2.	Sst lt gry f gr
9	7484.0	0.13	10.5	0.0	62.7	2.66	5.	Sst lt gry f gr
10	7494.0	0.10	9.8	0.0	69.0	2.66	1.	Sst lt gry f gr
11	7578.0	0.34	10.9	0.0	70.8	2.65	3.	Sst lt gry f-m gr
12	7585.0	0.09	8.8	0.0	66.4	2.66	2.	Sst lt gry f-m gr
13	7613.0	0.05	9.6	1.1	58.2	2.65	1.	Sst lt gry f-m gr
14	7622.0	0.15	8.7	1.2	62.4	2.65	0.	Sst lt gry f-n gr
15I	7699.9	6.09	10.3	1.6	77.5	2.63	0.	Sst lt gry f-n gr
16	7704.0	0.08	9.3	0.0	65.7	2.64	2.	Sst lt gry f-m gr
17	7718.0	2.08	11.0	0.0	66.0	2.65	1.	Sst lt gry f-m gr
18	7722.0	1.32	10.0	0.0	67.6	2.65	2.	Sst lt gry f-m gr
19	7744.0	0.03	7.6	0.0	59.5	2.67	0.	Sst lt gry f-m gr
20	7808.0	1.32	7.9	0.0	64.5	2.68	5.	Sst lt gry f gr
21I	7818.9	4.49	8.0	0.0	68.0	2.66	0.	Sst lt gry f gr
22I	7917.9	1.51	15.9	0.0	30.5	2.65	1.	Sst lt gry f gr
23	8272.0	0.03	7.5	0.0	44.8	2.67	0.	Sst lt gry f gr

# CORE LABORATORIES

Company : Coastal Oil & Gas Corporation  
 Well : Morgan 4-36

Field :  
 Formation :

File No.: 57122-8071  
 Date : 11-Mar-1997

## CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K <sub>air</sub> md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	GAS DETECTOR UNITS	DESCRIPTION
				(PORE OIL %)	(VOLUME WATER %)			
24	8332.0	<.01	2.9	0.0	63.3	2.69	1.	Sst lt gry f gr calc
25	8339.0	0.02	7.2	0.0	47.8	2.68	1.	Sst gry f gr
26	8488.9	0.53	6.3	0.0	41.4	2.68	1.	Sst gry f gr
27	8497.0	0.03	7.6	0.0	50.7	2.67	0.	Sst gry f gr
28	8501.0	1.06	7.5	0.0	40.4	2.68	0.	Sst gry f gr
29	8514.0	0.09	11.4	0.0	56.5	2.68	0.	Sst gry f gr
30	8588.0	0.02	6.5	0.0	28.3	2.69	0.	Sst gry v-f gr
31	8613.9	1.53	9.7	0.0	32.1	2.70	0.	Sst gry v-f gr
32	8629.0	1.10	8.9	0.0	43.4	2.69	1.	Sst gry v-f gr
33	8652.0	<.01	4.7	0.0	50.2	2.67	0.	Sst gry v-f gr
34	8680.0	0.05	8.4	0.0	19.2	2.67	1.	Sst gry v-f gr
35	8854.0	0.04	11.2	0.0	32.2	2.66	1.	Sst gry v-f gr
36*	8874.0		10.1	0.0	24.5	2.62	0.	Sst gry v gr
37	8874.5	0.08	12.3	0.0	39.2	2.66	1.	Sst gry v gr
38*	8901.0		9.4	0.0	37.4	2.62	1.	Sst gry v gr
39	8960.0	0.01	3.6	0.0	28.0	2.63	0.	Sst gry v gr
40*	8983.0		4.1	0.0	35.3	1.54	150.	Coal
41	9016.0	<.01	7.8	0.8	50.7	2.63	18.	Sst gry vf gr
42	9024.0	<.01	4.3	0.0	24.1	2.62	130.	Sst dkgrv vf gr
43*	9026.0		4.5	0.0	41.2	2.52	20.	Sltst blk coal
44	9235.0	1.68	7.9	0.0	42.0	2.69	14.	Sst gry vf-f gr
45	9252.0	0.02	9.1	1.0	32.9	2.68	2.	Sst gry vf gr
46	9296.0	0.03	8.3	1.8	30.4	2.67	14.	Sst gry vf gr
47	9301.0	0.04	9.3	0.0	35.6	2.67	10.	Sst gry vf gr
48	9340.0	0.05	10.8	0.0	27.1	2.67	2.	Sst gry vf gr

\*=Unsuitable for permeability measurement

*Donnie*

**PERC** WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36	FIELD NAME: NATURAL BUTTES	COUNTY: UINTAH
AFE#: 26800	OPERATOR: COASTAL OIL & GAS CORP.	SPUD DATE: 2/7/97
WI%:		

DATE: 2/4/97      DEPTH: 43      ACTIVITY AT REPORT TIME: WAIT ON ROTARY TOOLS  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$17,612.10      CUMM COST : \$17,612.10

ACTIVITY LAST 24 HOURS: RU BILL MARTIN JR RAT HOLE DRLG SER. DRILL 24" HOLE TO 43' 2/2/97. RIH W/43' 16" .25 WALL THICK COND PIPE. CMT W/3 YDS REDDI MIX 2/3/97

DATE: 2/7/97      DEPTH: 56      ACTIVITY AT REPORT TIME: RURT. PREP TO SPUD  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$843.70      CUMM COST : \$18,455.80

ACTIVITY LAST 24 HOURS: RDRT F/NBU 229. MOVE RIG TO MORGAN STATE 4-36. RURT. VERY MUDDY SLICK CONDITIONS

DATE: 2/8/97      DEPTH: 1204      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 19.00      PROGRESS: 1148 ft  
 MW: 0.0      DAILY COST: \$21,942.80      CUMM COST : \$40,398.60

ACTIVITY LAST 24 HOURS: RU PU BHA DRLG PU ROT HEAD F/AIR MIST DRLG SURVEY RS DRLG 315-632' SURVEY DRLG 632-865' CHANGE ROT HEAD RUBB F/DP DRLG 865-1204'

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 2/9/97      DEPTH: 2500      ACTIVITY AT REPORT TIME: MAKE SHORT TRIP F/SURF CSG JOB  
 HOURS: 19.00      PROGRESS: 1296 ft  
 MW: 0.0      DAILY COST: \$52,616.80      CUMM COST : \$93,015.40

ACTIVITY LAST 24 HOURS: DRLG 1204-1422' SURVEY RS DRLG 1422-1822' REPAIR BLOOIE LINE DLRG 1822-1916' SURVEY DRLG 1916-2413' SURVEY RS DRLG 2413-2500'. CSG PT. CIRC FOR SHORT TRIP SHORT TRIP. DRLG BREAK F/1587-1607'. STARTED MAKING H2O @ THIS BREAK.

DATE: 2/10/97      DEPTH: 2500      ACTIVITY AT REPORT TIME: WELD ON WELLHEAD  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$60,586.10      CUMM COST : \$153,601.50

ACTIVITY LAST 24 HOURS: SHORT TRIP TO DC'S. (SLM NO CORR) CIRC & COND POOH F/CSG LD 8" DC & SHOCK SUB RU T&M CASERS & RAN 59 JTS 8 5/8" 52# K55 ST&C W/HOWCO SHOE & FLOAT (1 SHOE JT). TOTAL STRING 2494.21' 18 CENT CIRC & COND CMT W/HALLIBURTON. PMPD 20 FW LEAD 755 SX HLC W/10# SX GILSONITE, 3% SALT, 2% GRANULITE, 1% CX-1, 1/4# SX FLOCELE, WT 12.1, Y 2.19. TAIL W/370 SX TYPE V W/2% CC, 1/4# SX FLOCELE, WT 15.6, Y 1.18. DROP PLUG & DISPL W/155 BBL WTR. PLUG BUMPED FLOATS HELD. +/- 25 BBLs CMT TO SURF. COMP @ 6:15 PM 2/9/97 WOC. 1" TOP JOB W/200 SX TYPE V. CMT FELL 20' CUT OFF 8 5/8" CSG & WELD ON 11" 5000 WELLHEAD.

DATE: 2/11/97      DEPTH: 2770      ACTIVITY AT REPORT TIME: DRLG W/AERATED WTR  
 HOURS: 3.50      PROGRESS: 270 ft  
 MW: 8.4      DAILY COST: \$14,797.20      CUMM COST : \$168,398.70

ACTIVITY LAST 24 HOURS: NU BOP'S PRESS TEST BOP'S TO 3000#, HYDRIL 1500#, CHOKE 3000#, CSG 15003 (WITH DAVE HACKFORD UTAH STATE) HOOK UP FLARE LINES & PU BHA RS - PUMP COOLER RS TIH WASH OUT MOUSE HOLE DRILL OUT CMT FLOAT & SHOE 2418-2495' DRLG 2500-2770'

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 2/12/97      **DEPTH:** 4005      **ACTIVITY AT REPORT TIME:** DRLG W/AERATED WTR  
**HOURS:** 21.50      **PROGRESS:** 1235 ft  
**MW:** 8.4      **DAILY COST:** \$36,697.10      **CUMM COST :** \$205,095.80

**ACTIVITY LAST 24 HOURS:** DRLG 2770-2893' RS DRLG 2893-2924' SURVEY @ 2850' 2 DEGS DRLG 2924-3172' SURVEY @ 3097' 1 1/2 DEGS DRLG 3172-3635' SURVEY @ 3608' 1 1/2 DEGS RS DRLG 3635-4005'

**DATE:** 2/13/97      **DEPTH:** 5031      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 21.00      **PROGRESS:** 1026 ft  
**MW:** 8.5      **DAILY COST:** \$30,003.50      **CUMM COST :** \$235,099.30

**ACTIVITY LAST 24 HOURS:** DRLG 4005-4162' RS SURVEY DRLG 4162-4657' SURVEY DRLG 4657-4906' SURVEY RS DRLG 4906-4937' SURVEY DRLG 4937-5031'. TOP WASATCH 4624'

**DATE:** 2/14/97      **DEPTH:** 5730      **ACTIVITY AT REPORT TIME:** DRLG W/AERATED WTR  
**HOURS:** 22.00      **PROGRESS:** 699 ft  
**MW:** 8.6      **DAILY COST:** \$22,290.50      **CUMM COST :** \$257,389.80

**ACTIVITY LAST 24 HOURS:** DRLG 5031-5432' RS SURVEY @ 5367' 4 DEGS DRLG 5432-5556' SURVEY @ 5490' 3 3/4 DEGS RS DRLG 5556-5730'. WASATCH 80% SHALE, 20% SS



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

W1%:

DATE: 2/15/97      DEPTH: 6265      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 22.25      PROGRESS: 535 ft  
 MW: 0.0      DAILY COST: \$18,361.80      CUMM COST : \$275,751.60

ACTIVITY LAST 24 HOURS: DRLG 5730-5837' RS SURVEY DRLG 5837-6178' RS DRLG 6178-6207' CHANGE FUEL FILTER ON DIESEL TANK DRLG 6207-6265'.

DATE: 2/16/97      DEPTH: 6586      ACTIVITY AT REPORT TIME: TIH  
 HOURS: 12.25      PROGRESS: 321 ft  
 MW: 8.4      DAILY COST: \$11,845.00      CUMM COST : \$287,596.60

ACTIVITY LAST 24 HOURS: DRLG RS SURVEY DRLG TRIP FOR BIT #3 W&R 71' TO BTM DRLG RS DRLG 6494-6586' PMP FLAG - TRIP F/HOLE IN DRL STRING

DATE: 2/17/97      DEPTH: 6920      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.75      PROGRESS: 334 ft  
 MW: 9.1      DAILY COST: \$13,341.10      CUMM COST : \$300,937.70

ACTIVITY LAST 24 HOURS: TIH 38 STD DWN WASH 15' TO BTM DRLG 6585-6650' RS DRLG 6650-6846' WORK ON ROT HEAD DRLG 6846-6862' RS DRLG 6862-6920'



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

W%:

DATE: 2/18/97      DEPTH: 7043      ACTIVITY AT REPORT TIME: PU KELLY TO WASH 60' TO BTM  
 HOURS: 7.75      PROGRESS: 123 ft  
 MW: 8.8      DAILY COST: \$7,622.80      CUMM COST : \$308,560.50

ACTIVITY LAST 24 HOURS: DRLG REPAIR PMP DRLG 6940-6983' RS. FUNC TEST ANN & PIPE RAMS DRLG 6983-7043'  
 TOOH LD 2 DC'S & PU 2 DC'S. WASHED BOX & PIN TIH

DATE: 2/19/97      DEPTH: 7287      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.25      PROGRESS: 244 ft  
 MW: 8.8      DAILY COST: \$10,374.00      CUMM COST : \$318,934.50

ACTIVITY LAST 24 HOURS: REAM 41' TO BTM RIG REPAIR - VIB HOSE REAM 13' TO BTM DLRG 7043-7136' RS - TELEDRIFT  
 SURVEY DRLG 7136-7144' REPAIR WASHED SEAT STANDBY PMP DRLG 7144-7287'

DATE: 2/20/97      DEPTH: 7322      ACTIVITY AT REPORT TIME: TIH. INSPECTING BHA  
 HOURS: 3.50      PROGRESS: 35 ft  
 MW: 8.8      DAILY COST: \$4,328.60      CUMM COST : \$323,263.10

ACTIVITY LAST 24 HOURS: DRLG 7287-7305' REPAIR PMP. TELEDRIFT SURVEY DRLG 7305-7322' RS. CHECK PMP F/PRESS  
 LOSS TOOH & LD 6 JTS DP & 16 DC'S W/WASHED BOXES & FACES. INSPECT REST OF BHA & LD MM &  
 TELEDRIFT RS

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 2/21/97      **DEPTH:** 7431      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 7.50      **PROGRESS:** 109 ft  
**MW:** 9.0      **DAILY COST:** \$4,973.90      **CUMM COST :** \$328,237.00

**ACTIVITY LAST 24 HOURS:** LD BAD DC'S WO DC'S PU BHA TIH RS BREAK CIRC & WASH 30' TO BTM DRLG TO 7431'

**DATE:** 2/22/97      **DEPTH:** 7755      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 23.25      **PROGRESS:** 324 ft  
**MW:** 9.1      **DAILY COST:** \$12,636.00      **CUMM COST :** \$340,873.00

**ACTIVITY LAST 24 HOURS:** DRLG 7431-7459 RS DRLG 7459-7676' RS DRLG 7676-7755'

**DATE:** 2/23/97      **DEPTH:** 7900      **ACTIVITY AT REPORT TIME:** POOH FOR LOGS  
**HOURS:** 15.25      **PROGRESS:** 145 ft  
**MW:** 9.1      **DAILY COST:** \$10,303.40      **CUMM COST :** \$351,176.40

**ACTIVITY LAST 24 HOURS:** DRLG 7755-7801' RS 7801-7900' CIRC & COND SHORT TRIP 15 STDS CIRC & COND SURVEY (DROPPED) POOH

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/24/97

DEPTH: 7965

ACTIVITY AT REPORT TIME: DRLG

HOURS: 6.00

PROGRESS: 65 ft

MW: 9.3

DAILY COST: \$21,096.90

CUMM COST : \$372,273.30

ACTIVITY LAST  
24 HOURS:POOH FOR LOGS RU SCHLUMBERGER & RAN HIP/HALS. LOGGERS TD 7904'. MAX TEMP 160 TIH  
CHANGE MUD PMPS TIH W&R 100' TO BTM DRLG 7900-7965'

DATE: 2/25/97

DEPTH: 8210

ACTIVITY AT REPORT TIME: DRLG

HOURS: 20.00

PROGRESS: 245 ft

MW: 9.3

DAILY COST: \$10,008.10

CUMM COST : \$382,281.40

ACTIVITY LAST  
24 HOURS:DRLG 7965-7975 RIG REPAIR - PMP PACKING DRLG 7975-8023' RIG REPAIR - LINER GASKET MAIN  
PMP RS DRLG 8023-8907' RIG REPAIR - LINER COOLER LINES DRLG 8097-8153' RS RIG  
REPAIR - PMP DRLG 8153-8210' DRILLING BREAK 8182-8200'

DATE: 2/26/97

DEPTH: 8440

ACTIVITY AT REPORT TIME: DRLG

HOURS: 21.75

PROGRESS: 230 ft

MW: 9.6

DAILY COST: \$12,625.50

CUMM COST : \$394,906.90

ACTIVITY LAST  
24 HOURS:DRLG 8210-8231' REPAIR PMP DRLG 8231-8272' RS REPAIR U JOINT ROTARY TABLE DRLG  
8272- RS DRLG TO 8440'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 2/27/97      DEPTH: 8584      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 19.75      PROGRESS: 144 ft  
 MW: 9.7      DAILY COST: \$10,460.20      CUMM COST : \$405,367.10

ACTIVITY LAST 24 HOURS: DRLG 8440-8459' CIRC & SURVEY 2 8418' 1 1/4 DEGS DRLG 8459-8490' RS DRLG 8490-8509'  
 (LOST RET) MIX & PMP LCM TO GET FULL RET DRLG 8509-8584' LOST 450 MUD @ 8509'

DATE: 2/28/97      DEPTH: 8785      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 20.50      PROGRESS: 201 ft  
 MW: 10.4      DAILY COST: \$19,302.60      CUMM COST : \$424,669.70

ACTIVITY LAST 24 HOURS: RS DRLG 8584-8678' RS DRLG 8678-8721' WORK ON MUD PMP RS DRLG 8721-8785'

DATE: 3/1/97      DEPTH: 8936      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 23.00      PROGRESS: 151 ft  
 MW: 11.0      DAILY COST: \$6,133.10      CUMM COST : \$430,802.80

ACTIVITY LAST 24 HOURS: DRLG 8785-8803' RS DRLG 8803-8898' RS DRLG 8898-8936'

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: Uintah

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/2/97

DEPTH:

8952

ACTIVITY AT REPORT TIME: WORK ON PMP

HOURS:

4.00

PROGRESS: 16 ft

MW:

10.6

DAILY COST: \$16,837.90

CUMM COST :

\$447,640.70

ACTIVITY LAST  
24 HOURS:DRLG 8936-8940' RIG REPAIR - MUD PMP DRLG 8940-8952' RIG REPAIR - MUD PMP CIRC  
DROP SURVEY & TRIP FOR NEW BIT RIG REPAIR - MUD PMP

DATE: 3/3/97

DEPTH:

9056

ACTIVITY AT REPORT TIME: DRLG

HOURS:

12.00

PROGRESS: 104 ft

MW:

10.2

DAILY COST: \$10,206.40

CUMM COST :

\$457,847.10

ACTIVITY LAST  
24 HOURS:REPAIR MUD PMP TIH CIRC BTMS UP WORK ON ROT HEAD DRLG 8952-8993' RS DRLG  
8993-9056'

DATE: 3/4/97

DEPTH:

9079

ACTIVITY AT REPORT TIME: TIRP OUT W/FISH

HOURS:

3.00

PROGRESS: 23 ft

MW:

11.1

DAILY COST: \$3,081.60

CUMM COST :

\$460,928.70

ACTIVITY LAST  
24 HOURS:DRLG CIRC TRIP OUT TWISTED OFF PU / LD FISHING TOOLS TRIP IN CIRC WORK OVER  
FISH CIRC TRIP OUT W/FISH WORK THRU TIGHT HOLE @ 5217' TRIP OUT W/FISH



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/5/97      DEPTH: 9153      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 9.50      PROGRESS: 74 ft  
 MW: 11.3      DAILY COST: \$14,229.60      CUMM COST : \$475,158.30

ACTIVITY LAST 24 HOURS: TOOH W/FISH & LD SAME TOOH W/DC'S CHANGE BITS. F3 WASHED PIN TIH TO 2500' BREAK CIRC RS REPAIR PMP TIH WASH 40' TO BTM RS DRLG 9079-9153'. LOST +/- 50 BBLs MUD @ 9143'.

DATE: 3/6/97      DEPTH: 9313      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 22.00      PROGRESS: 160 ft  
 MW: 11.2      DAILY COST: \$9,219.40      CUMM COST : \$484,377.70

ACTIVITY LAST 24 HOURS: DRLG 9153-9182' RS DRLG 9182-9257' RS DRLG 9257-9268' RS. FUNCTION TEST BOP'S DRLG 9268-9313'

DATE: 3/7/97      DEPTH: 9425      ACTIVITY AT REPORT TIME: DRLG  
 HOURS: 21.75      PROGRESS: 112 ft  
 MW: 11.7      DAILY COST: \$10,545.70      CUMM COST : \$494,923.40

ACTIVITY LAST 24 HOURS: DRLG F/9313' - 9331'. SERVICE RIG. DRLG F/9331' - 9360'. RIG REPAIR - DRIVE LINE U JOINT. DRLG F/9360' - 9392'. RIG SERVICE. DRLG F/9392' - 9425'.

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 3/8/97      **DEPTH:** 9487      **ACTIVITY AT REPORT TIME:** DRLG  
**HOURS:** 8.00      **PROGRESS:** 62 ft  
**MW:** 11.3      **DAILY COST:** \$16,232.20      **CUMM COST :** \$511,155.60

**ACTIVITY LAST 24 HOURS:** DRLG 9425-9427' LOST CIRC. MIX & PMP LCM CIRC & COND MUD W/FULL RET CIRC THRU CHOKE & BUILD MUD WT DRLG 9427-9433' RS DRLG 9433-9455' RIG REPAIR (MUD PMPS) DRLG 9455-9473' RIG REPAIR (MUD PMPS) DRLG 9473-9487'. LOST +/- 350 BBLs MUD @ 9427'. WELL STARTED TO FLOW WHEN MUD GOT BELOW 11 PPG.

**DATE:** 3/9/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** LOGGING  
**HOURS:** 2.00      **PROGRESS:** 13 ft  
**MW:** 11.7      **DAILY COST:** \$18,818.20      **CUMM COST :** \$529,973.80

**ACTIVITY LAST 24 HOURS:** DRLG 9487-9500' CIRC & COND SHORT TRIP C&C. SPOT 50 VIS 100 BBL ON BTM POOH & SLM. NO CORR LOGGING W/SCHLUMBERGER. LOGGER TD 9502'. RAN PLATFORM EXPRESS. 2ND RUN WILL BE SIDE WALL CORE

**DATE:** 3/10/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** LOGGING  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 11.7      **DAILY COST:** \$9,830.40      **CUMM COST :** \$539,804.20

**ACTIVITY LAST 24 HOURS:** LOGGING W/SCHLUMBERGER. RUNNING SIDE WALL CORES

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 3/11/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: LD DP  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 11.7      DAILY COST: \$39,158.90      CUMM COST : \$578,963.10

ACTIVITY LAST 24 HOURS: LOGGING W/SCHLUMBERGER (ROT SIDEWALL CORES) TIH CIRC & COND MUD F/5 1/2" CSG LD DP.

DATE: 3/12/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ND BOP'S  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 10.8      DAILY COST: \$152,167.00      CUMM COST : \$731,130.10

ACTIVITY LAST 24 HOURS: LD DP & DC. PULL EAR RING RU T&M & RAN 243 JTS 5 1/2" 20# N80 CSG W/HOWCO SHOE & FLOAT, 1 SHOE JT, DV TOOL @ 5994'. TOTAL 9524.54'. 35 CENT ON EVERY 3RD JT F/TD CIRC & COND F/CMT. CSG STUCK @ 9498' CMT 1ST STAGE W/HALLIBURTON. PMPD 20 BB MUD F/20 BFW, 1350 SX 50/50 POZ W/2% GEL, .3% VERSASET, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .35 HR5, 2% MICROBOND, 1/4 #/SX FLOCELE, 1#/SX GROMULITE. WT 14.2, Y 1.36. DROP PLUG & DISPL W/90 BBL WTR & 220 BBL MUD. PLUG BUMPED. FLOATS HELD. DROP BOMB & OPEN DV W/125 PSI. CIRC W/RIG PMP CIRC F/2ND STAGE +/- 40 BBL CMT TO SURF CMT 2ND STAGE. P.PD 20 BBL MUD F/20 BFW. 350 SX PREM "H" 16% GEL, .5% HR7, WT 11.4, Y 3.18. 1020 SXS 50/50 W/2% GEL, .3% VERSASETE, 10% SALT, 3#/SX SILICALITE, .5% HALAD 9, .3% HR5, 2% MICROBOND. WT 14.2, Y 1.36. 100 SX PREM "H" W/.4% HALAD 322. WT 16.4, Y 1.06. DROP PLUG & DISPL W/140 BBL. PLUG BUMPED. DV CLOSED W/1500 PSI. REL PRESS. DV HELD. 5 BBL CMT TO SURF. JOB COMPL @ 03:38 3/12/97. HAD GOOD ROT THRU OUT JOB ND BOP'S TO SET CSG SLIPS

DATE: 3/13/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: RIG DOWN  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$9,721.60      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: SET SLIPS ON 5 1/2" CSG W/175,000 & CUT OFF. CLEAN MUD PITS. RIG RELEASED @ 13:00 3/12/97. RIG MOVING TO MORGAN STATE #5-36 ON 3/13/97.



# WELL CHRONOLOGICAL REPORT

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL & GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 3/14/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: CLEANING UP LOCATION  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: FROM 3/14/97 THROUGH 3/16/97 - CLEANING UP LOCATION

DATE: 3/26/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: SETTING SURFACE FACILITIES  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: 03/17/97 THROUGH 03/26/97 - SETTING SURFACE FACILITIES. WOC

DATE: 3/27/97      DEPTH: 9500      ACTIVITY AT REPORT TIME:  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: 03/27/97 THROUGH 04/02/97 - FINISH SETTING SURFACE FACILITIES.

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/3/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: WAITING ON COMPLETION RIG  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$740,851.70

ACTIVITY LAST 24 HOURS: 04/03/97 AND 04/04/97 - WAITING ON COMPLETION RIG

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DATE: 4/5/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO PU TUBING  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$3,314.00      CUMM COST : \$744,165.70

ACTIVITY LAST 24 HOURS: MIRU COLORADO WELL SERVICE (CWS) RIG #26. SDFN

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DATE: 4/6/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO DRILL OUT DV COLLAR  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$3,540.00      CUMM COST : \$747,705.70

ACTIVITY LAST 24 HOURS: RU CWS #26. PU 4-5/8" MILL BIT SUB. RU & TIH W/ 2-7/8" TBG, TAG @ 5918'. PU STRIPING HEAD & POWER SWIVEL. SDFN



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> Uintah
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

DATE: 4/7/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO LD TBG & TOOH  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,975.00      CUMM COST : \$751,680.70

ACTIVITY LAST 24 HOURS: BREAK CIRC. DRLG CMT FROM 5918' TO 5997'. DRLG DV TOOL @ 5998'. FINISH TIH TO 9357'. DRLG PLUG & CMT FROM 9357'-9410'. DISPL W/ 2% KCL FILTER WTR 200 BBLs. LD 5 JTS. SDFN

DATE: 4/8/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: PREP TO PRESS TST CSG  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$3,150.00      CUMM COST : \$754,830.70

ACTIVITY LAST 24 HOURS: LD 7 JTS 2-7/8" TBG. TOOH - RU SCHLUMBERGER & RUN BOND LOG W/1000# PRESS ON CSG. RUN LOGS FROM 9410' TO SURFACE. SDFN. TOC 600 - GOOD BOND

DATE: 4/9/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: BLOWING TO PIT ON 24/64" CHK  
 HOURS: 0.00      PROGRESS: 0 ft  
 MW: 0.0      DAILY COST: \$29,274.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: PRESS TST CSG TO 5000 PSI. RU SCHLUMBERGER & RIH PERF CSG @ 9235', 9234', 8902', 8875', 8854', 4 HOLES PER SHOT, 20 HOLES. RD SCHLUMBERGER. TIH TO 7335', BREAK DOWN PERF W/15% HCL. BROKE @ 3000 PSI, 2 BPM @ 2600 PSI, 10 BBLs TOTAL. SI PRESS 0-2400, 5-2300, 10-2150, 15-2100. HANG OFF TBG. ND NU. LEAVE WELL OPEN TO PIT. GAS TO SURFACE UP CSG @ 4:30PM. 40 BW/HR. RD MO CSW #26. HOOK UP FLOW BACK LINE TO TBG, TP 210, CP 400 PSI, 15-20 BW/HR - 350 MCF @ 6:00 PM.

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/10/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: SI WO FRAC  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: SITP 2300 PSI

DATE: 4/11/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: MIRU SNUBBING UNIT  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: FLWG 100 MCF, 22 BLW, FTP 25#, CP 675# ON 24/64" CHK.

DATE: 4/12/97      DEPTH: 9500      ACTIVITY AT REPORT TIME:  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$784,104.70

ACTIVITY LAST 24 HOURS: FLWG 100 MCF, 10 BLW, FTP 30#, CP 800# ON 24/64" CHK.



# WELL CHRONOLOGICAL REPORT

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 4/13/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:**  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$985.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:** ICP 800 PSI, ITP 25 PSI ON 24/64" CHK. PULL CHK. RIH TO 3800'. DRY RUN, RAN IN, TAG GAS CUT FLUID @ 4000'. PULL FROM SN. KICK WELL OFF IN 30 MIN, CP 550 PSI, FTP 50 PSI, NO CHK. FLOW 1 HR 15 MIN, TBG DIED CP 480 PSI. MADE SWAB RUN, FL 6500'. PULLED FROM SN - KICKED OFF. MOVE SWABBER OFF. LEFT FLOWING TO PIT, NO CHK. RECOVERED 8 BLW.

**DATE:** 4/14/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** PREP TO FRAC  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

<b>WELL NAME:</b> MORGAN STATE #4-36	<b>FIELD NAME:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
<b>AFE#:</b> 26800	<b>OPERATOR:</b> COASTAL OIL & GAS CORP.	<b>SPUD DATE:</b> 2/7/97
<b>WI%:</b>		

**DATE:** 4/15/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** FLOW BACK AFTER FRAC  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

... THIS DAY'S REPORT IS TWO PAGES. ... SITP 1500 PSI. MIRU DOWELL FRAC EQUIP. PMPD STEP RATE & LEAK OFF TEST. FRAC PERFS 8854'-9235' W/ 31,800 GALS YF125 + 96,380# 20/40 SD (2-5 PPG) AVG 20 BPM @ 4700 PSI. ISIP 3400 PSI. RU SCHLUMBERGER. PERF 8339', 8498'-8502', 8615'-19', 8628'-31'. PRESS DECREASED 2700 PSI TO 2400 PSI. FRAC W/ 60,000 GAL YF125 + 183,000# 20/40 SD. AVG 20 BPM @ 4900 PSI. ISIP 3750 PSI. PERF 4 SPF 7908'-18' W/ 2-1/8" GUN. NO PRESS CHANGE. FRAC W/ 17,430 GALS YF125 + 52,400# 20/40 SD. AVG 18 BPM @ 4700 PSI. ISIP 3970 PSI. PERF 4 SPF 7399'-401", 7473'-74', 7484'-85', 7577'-78', 7612'-13', 7621'-22'. PRESS DECREASED 2400 PSI TO 2250 PSI AFTER PERF 7621'-22'. FRAC W/ 58,700 GALS YF125 + 187,000# 20/40 SD. AVG 22 BPM @ 4800 PSI, ISIP 2670 PSI. START FLOW BACK ON 24/64" CHK @ 11:45 PM.  
1ST STAGE, NO TAGGED  
2ND STAGE, TAGGED W/ 80 MCI IR-192  
3RD STAGE, TAGGED W/ 65 MCI SC-46  
4TH STAGE, TAGGED W/ 18 MCI SB-174  
PMPD 4657 BW, REC 0 BW, TOTAL 4657 BWLTR  
TIME...CP...TP...CHK.WTR...SD  
11:45.....2500  
12:00.....1700. 24/64. 50...MED  
. 2:30.....1700. 24/64. 50...MED  
12:45.....1700. 24/64. 25-50.MED  
. 1:00.....1700. 18/64. 40...MED  
. 2:00. 1925. 1700. 18/64. 40... HVY  
. 3:00. 1725. 1650. 18/64. 40... M-H  
. 4:00. 1850. 1600. 18/64. 35...MED  
. 5:00. 1750. 1575. 18/64. 35...MED  
. 6:00. 1750. 1575. 18/64. 25...MED  
TOTAL 365 BW

**DATE:** 4/16/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** FLOW BACK REPORT  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$785,089.70

**ACTIVITY LAST 24 HOURS:**

TIME...CP...TP...CHK.WTR.SD  
. 6P. .1550. 2100. 18/64. 20. .LGT  
. 7P. .1750. 2200. 20/64. 20. .LGT  
. 8P. .1750. 2350. 20/64. 20. .LGT  
. 9P. .1850. 2250. 20/64. 20. .LGT  
10P. .2000. 2300. 20/64. 20. MED  
11P. .2000. 2300. 20/64. 20. .LGT  
12A. .2100. 2200. 20/64. 20. .MED  
. 1A. .2050. 2200. 20/64. 20. .MED  
. 2A. .2050. 2150. 20/64. 20. .MED  
. 3A. .2050. 2150. 20/64. 20. .MED  
. 4A. .2100. 2050. 20/64. 20. .LGT  
. 5A. .2000. 2100. 20/64. 20. .MED  
. 6A. .2050. 2200. 20/64. 20. .LGT  
TOTAL 480 BW  
FLWG 2000 MCF, 480 BW, FTP 2050#, CP 2000#, 20/64" CHK, 24 HRS. TLTR 3812 BBLs. FLWG TO PIT.

**WELL NAME: MORGAN STATE #4-36****FIELD NAME: NATURAL BUTTES****COUNTY: UINTAH****AFE#: 26800****OPERATOR: COASTAL OIL & GAS CORP.****SPUD DATE: 2/7/97****WI%:**

**DATE: 4/17/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION**  
**HOURS: 0.00      PROGRESS: 0 ft**  
**MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:** FLWG 1000 MCF, 210 BW, FTP 2275#, CP 2800#, 10/64" CHK,

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**DATE: 4/18/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION**  
**HOURS: 0.00      PROGRESS: 0 ft**  
**MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:** FLWG 669 MCF, 28 BW, FTP 2900#, CP 3400#, 10/64" CHK,

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**DATE: 4/19/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION**  
**HOURS: 0.00      PROGRESS: 0 ft**  
**MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:** FLWG 1382 MCF, 152 BW, FTP 2725#, CP 3050#, 10/64" CHK,

WELL NAME: MORGAN STATE #4-36

FIELD NAME: NATURAL BUTTES

COUNTY: UINTAH

AFE#: 26800

OPERATOR: COASTAL OIL &amp; GAS CORP.

SPUD DATE: 2/7/97

WI%:

DATE: 4/20/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: FLWG 1583 MCF, 215 BW, FTP 2525#, CP 2750#, 11/64" CHK,

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DATE: 4/21/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: ON PRODUCTION  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: FLWG 1642 MCF, 128 BW, FTP 2400#, CP 2600#, 11/64" CHK,

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DATE: 4/22/97      DEPTH: 9500      ACTIVITY AT REPORT TIME: FLOWING  
HOURS: 0.00      PROGRESS: 0 ft  
MW: 0.0      DAILY COST: \$0.00      CUMM COST : \$785,089.70

ACTIVITY LAST 24 HOURS: FLWG 1943 MCF, 163 BW, FTP 2100 PSI, CP 2250 PSI ON 12/64" CHK.

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**WELL NAME: MORGAN STATE #4-36****FIELD NAME: NATURAL BUTTES****COUNTY: UINTAH****AFE#: 26800****OPERATOR: COASTAL OIL & GAS CORP.****SPUD DATE: 2/7/97****WI%:**

**DATE: 4/23/97**      **DEPTH: 9500**      **ACTIVITY AT REPORT TIME: FLOWING**  
**HOURS: 0.00**      **PROGRESS: 0 ft**  
**MW: 0.0**      **DAILY COST: \$0.00**      **CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:**      FLWG 2274 MCF, 149 BW, FTP 1620 PSI, CP 1700 PSI ON 15-18/64" CHK. SPOT 3000

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**DATE: 4/24/97**      **DEPTH: 9500**      **ACTIVITY AT REPORT TIME: ON PRODUCTION**  
**HOURS: 0.00**      **PROGRESS: 0 ft**  
**MW: 0.0**      **DAILY COST: \$0.00**      **CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:**      PROD 2350 MCF, 149 BW, FTP 1620 PSI, CP 1700 PSI ON 15/64" CHK. FARO 2.6 MMCFD.

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**DATE: 4/25/97**      **DEPTH: 9500**      **ACTIVITY AT REPORT TIME: ON PRODUCTION**  
**HOURS: 0.00**      **PROGRESS: 0 ft**  
**MW: 0.0**      **DAILY COST: \$0.00**      **CUMM COST : \$785,089.70**

**ACTIVITY LAST 24 HOURS:**      PROD 2359 MCF, 117 BW, FTP 1275 PSI, CP 1350 PSI ON 18/64" CHK. . . . .FINAL REPORT

**WELL NAME:** MORGAN STATE #4-36**FIELD NAME:** NATURAL BUTTES**COUNTY:** UINTAH**AFE#:** 26800**OPERATOR:** COASTAL OIL & GAS CORP.**SPUD DATE:** 2/7/97**WI%:**

**DATE:** 4/27/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** RU SCHLUMBERGER  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$10,307.00      **CUMM COST :** \$795,396.70

**ACTIVITY LAST 24 HOURS:** RIH MIST TOOL. POOH-RIH SPINNER, GRADIO, TEMP & PSI TOOL. SPINNER PLUGGED W/ SAND. POH - TOOK TO VERNAL TO CLEAN UP.  
NOTE: SD OVER BTM PERFS.

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**DATE:** 4/28/97      **DEPTH:** 9500      **ACTIVITY AT REPORT TIME:** RIH SPINNER  
**HOURS:** 0.00      **PROGRESS:** 0 ft  
**MW:** 0.0      **DAILY COST:** \$0.00      **CUMM COST :** \$795,396.70

**ACTIVITY LAST 24 HOURS:** RIH SPINNER, GRADIO TEMP & PSI TOOL. LOGGED WELL. TOOL WORKED WELL. POH - RD & RLS SCHLUMBERGER

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\* Amended \*

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] Other [ ]
b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other [ ]

2. NAME OF OPERATOR
Coastal Oil & Gas Corporation

3. ADDRESS OF OPERATOR
P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface
1912' FSL & 649' FWL (NWSW)
At top prod. interval reported below
At total depth

14. API NO. 43-047-32729 DATE ISSUED 2/9/96

5. LEASE DESIGNATION AND SERIAL NO. ML-22265
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
7. UNIT AGREEMENT NAME N/A
8. FARM OR LEASE NAME Morgan State
9. WELL NO. #4-36
10. FIELD AND POOL, OR WILDCAT Natural Buttes Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 36-T9S-R21E
12. COUNTY Uintah 13. STATE Utah

15. DATE SPUDED 2/2/97 16. DATE T.D. REACHED 3/9/97 17. DATE COMPL. 4/17/97 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 5028' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 9500' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) 9235 - 7399' Mesaverde 25. WAS DIRECTIONAL SURVEY MADE Single Shot

26. TYPE ELECTRIC AND OTHER LOGS RUN HALS/LDT/CNL/GR/CAL; CCL/CBL/GR 27. Was Well Cored YES [X] NO [ ] Drill System Test YES [ ] NO [X]

Table with 6 columns: CASING SIZE/GRADE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 16", 8-5/8" K-55, and 5-1/2" N-80.

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Includes LINER RECORD and TUBING RECORD.

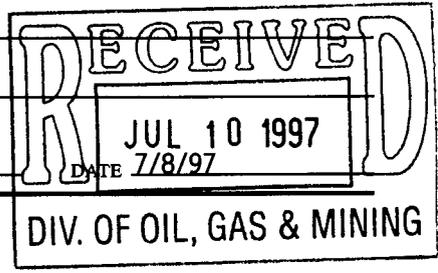
Table with 2 columns: 31. PERFORATION RECORD (Interval, size and number) and 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Includes depth intervals and material used.

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL - BBL., GAS - MCF., WATER - BBL., GAS - OIL RATIO.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY

35. LIST OF ATTACHMENTS
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED: Sheila Bremer TITLE: Environmental & Safety Analyst DATE: 7/8/97

See Spaces for Additional Data on Reverse Side



INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachment.  
 ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details for any multiple stage cementing and the location of the cementing tool.  
 ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES: Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).		38. GEOLOGIC MARKERS		
Formation	Top	Bottom	Description, contents, etc.	
			Name	
			Meas. Depth	
			True Vert. Depth	
			Wasatch	4624'
			Mesaverde	7324'

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476**

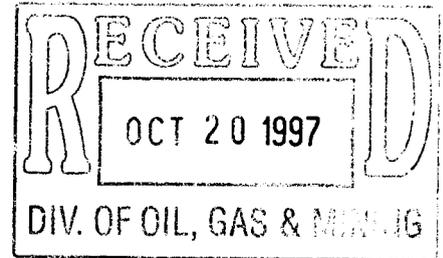
4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ, Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Perforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Perforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____	
<input checked="" type="checkbox"/> Other <u>Perf. frac &amp; acidize</u>		Date of work completion _____	
Approximate date work will start <u>Upon approval</u>		Report results of <b>Multiple Completions</b> and <b>Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure for work to be performed on the subject well.



13. Name & Signature Sheila Bremer Title Environmental & Safety Analyst Date 10/17/97

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING  
DATE: 10/22/97  
John R. By...

## Morgan State 4-36 Recompletion Procedure

Sec 36-T9S-R21E  
Uintah County, UT  
October 6, 1997

ELEVATION: 5029' GL , 5042' KB  
CASING: 5-1/2" 17# N-80, TD @ 9500', PBSD @ 9410'  
TUBING: 2-7/8" N-80, EOT 7335  
PERFS: Current 7622'-9235' Mesaverde  
Proposed 4846'-7252' Wasatch

### **PROCEDURE - LIMITED ENTRY**

1. MIRU well service rig. ND WH. NU BOPS. POOH w/ 2-7/8" tbg.
2. RU W/L. Test csg to 5000 psi. RIH w/4" select fire perf gun w/ setting tool and CIBP ~~w/~~ ~~check valve~~. Set CIBP @ 7280. Perf w/4" select shot guns 1spf as follows. Depths correlate to Schlumberger CNL/CDT run 2/23/97. **Note pressure changes on report.**

4847', 4918', 5344', 5350', 5482', 5524', 5788', 5795, 6947', 6999', 7081', 7252'

### **Total 12 holes.**

3. TIH w/2-7/8" tbg to 7250' w/ notched collar and SN 1 jt up from bottom. Spot 2500 gals 15% HCL across perfs.
4. PU and land 2-7/8" tbg @ 4780' w/ blast joint @ surface. ND BOP, NU WH. RU service company and breakdown perfs w/24 1.3 s.g. ball sealers in 500 gal 15% HCL. Pump at  $\pm 7$  bpm until ballout (i.e. 5000 psi). Surge balls to re-establish injection and displace the remaining acid into formation. Note ISIP and 15 min SITP. Open well on 18/64" chk. Flow/swab acid load back. RDMO service unit.
5. MIRU Frac equipment. Test lines to 6000 psi. Frac triple-entry w/210,000 # 20/40 proppant. Pump 20% pad and 2-6 ppa stages. Trace w/iridium. Displace to EOT (101 bbls). Pump schedule is attached.

#### Notes:

1. Frac to have 3% KCL base.
2. Additives
  - a. Gel Breaker
  - b. Clay Stabilizer
  - c. Bactericide
  - d. Surfactant
3. Max surface pressure = 5000 psi
4. Pump @ 30-40 BPM
5. Minimum Fluid temp = 65° F

6. Flowback immediately on 18/64" choke. (Note: there will be  $\pm 11,000\#$  proppant to flowback: Gross perforated interval = 2406' \* .0232 bpf = 56 bbls or 2344 gal & 6 ppa slurry yields 4.72# proppant per gal slurry = 11,000# proppant)
7. Once well cleans up frac fluids, check PBTD for sand fill.
8. Run post frac GR log.
9. MIRU PU. POOH w/tbg. PU 4-3/4" bit and assy. DO CIBP and CO to PBTD. Land tbg @  $\pm 9200'$ . *utilize Suction unit & Air Foam Churnout system if necessary to avoid over-killing well.*

FORM 6

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

COPY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:  
See attached spreadsheet

6. If Indian, Allottee or Tribe Name:  
N/A

7. Unit Agreement Name:  
N/A

8. Well Name and Number:  
See attached spreadsheet

9. API Well Number: 43,047,32729  
See attached spreadsheet

10. Field and Pool, or Wildcat:  
Natural Buttes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:  
Coastal Oil & Gas Corporation

3. Address and Telephone Number:  
P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well  
Footages: See attached spreadsheet  
QQ, Sec., T., R., M.:

County: Uintah  
State: Utah

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other Dispose water
- New Construction
- Pull or Alter Casing
- Recompletion
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start Upon approval

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandon \*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Date of work completion \_\_\_\_\_

Report results of bMultiple CompletionsC and bRecompletionsC to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The Operator requests permission to dispose of produced water from the subject wells to the NBU #159 salt water disposal well. The water will be produced into tanks and transported by truck to the NBU #159. The subject wells are not part of the Natural Buttes Unit; however, the NBU #159 is a Unit well, located NW/SW Section 35, T9S-R21E.

Attached is an analysis of the injection zone water of the NBU #159, as well as a composite analysis of the water produced from three of the Section 36 wells.

13.

Name & Signature:

*Bonnie Carson*

Bonnie Carson

Title: Senior Environmental Analyst

Date: 12/01/97

(This space for State use only)

Accepted by the State  
of Utah Division of  
Oil, Gas and Mining

Date: 12-2-97

By: [Signature]

Well Name	Location	Lease #	API #
Morgan State #1-36	2215' FNL & 1876' FWL Sec. 36 T9S-R21E	ML-22265	43-047-30600
Morgan State #2-36	900' FNL & 804' FWL Sec. 36 T9S-R21E	ML-22265	43-047-32585
Morgan State #3-36	521' FNL & 1940' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32589
Morgan State #4-36	1912' FNL & 649' FWL Sec. 36 T9S-R21E	ML-22265	43-047-32729
Morgan State #5-36	2100' FSL & 1800' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32735
Morgan State #6-36	1790' FNL & 712' FWL Sec. 36 T9S-R21E	ML-22265	43-047-32810
Morgan State #7-36	660' FNL & 1980' FWL Sec. 36 T9S-R21E	ML-22265	43-047-32811
Morgan State #8-36	650' FNL & 690' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32812
Morgan State #9-36	1894' FNL & 1978' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32815
Morgan State #10-36	1794' FNL & 649' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32816
Morgan State #11-36	1943' FSL & 1843' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32813
Morgan State #12-36	1992' FSL & 722' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32814
Morgan State #13-36	540' FSL & 815' FEL Sec. 36 T9S-R21E	ML-22265	43-047-32817

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303)425-6021

NBU-159  
SWB

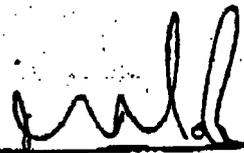
Miscellaneous Analysis

Date Sampled : 6/12/93  
Date Received : 6/23/93  
Client Sample ID.: NBU UINTAH  
Lab Sample No. : X72532

Client Project ID. : NBU UIC  
Lab Project No. : INJECTION PROJ  
Matrix : 93-2120  
: Liquid phase

<u>Analysis</u>	<u>Result</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
pH	7.84	6/23/93	6/23/93	EPA 150.1
Total Dissolved Solids (mg/L)	65200 (6.5%)	6/28/93	6/28/93	EPA 160.1
Specific Gravity @ 60°F	1.0451	6/29/93	6/29/93	ASTM D1217

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved  
212001.10

# EXHIBIT "G2"

NBU # 159

SWD

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

## INORGANIC ANALYSIS DATA SHEET

Date Sampled : 6/12/93  
Date Received : 6/23/93  
Date Prepared : 6/24/93  
Date Analyzed : 6/29/93

NBU UIC  
Client Project : INJECTION PROJ.  
Lab Project No. : 93-2120  
Method : 600/4-79-020  
Matrix : Water

Units: mg/L

Basis: Dissolved Metals

Client Sample# NBU UINTAH

Evergreen Sample# X72532

### Detection Limits

Ca	26
K	95
Mg	12
Na	23000

0.1
1.5
0.02
0.3

DC  
Analyst

WKF  
Approved

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield Street Wheat Ridge, CO 80033  
 (303) 425-6021

NBU #759  
 SWD

Anions

Date Sampled : 6/12/93  
 Date Received : 6/23/93  
 Date Prepared : 6/23/93  
 Date Analyzed : 6/23/93

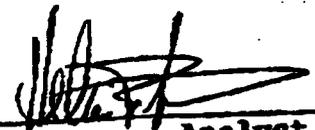
Client Project ID : NBU UIC INJECTION PROJ  
 Lab Project No. : 93-2120  
 Method : EPA Method 300.0

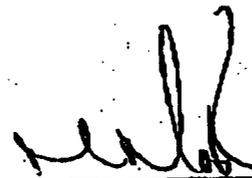
Client Sample ID	NBU UINCAH					
Evergreen Sample #	X72532					
Matrix	Liquid Waste					
Chloride (mg/L)	42800(4.3%)					
Nitrite-N (mg/L)*	<38.0					
Sulfate (mg/L)	3.13					

To: <i>For Steel</i>	From: <i>Small Sample</i>
at: <i>Control</i>	ca: <i>7/6/1990</i>
Dept.:	Phase:
Part # <i>573-4477</i>	Part #

PAGE 20

\* Sample received after holding time expired. Detection limit raised due to matrix interference.

  
 Analyst

  
 Approved

2120ml.24

EXHIBIT "G3"

FROM: CORSTAL OIL & GAS 303 573 4418 1997 -02 09:29 #077 P.06/07

DEC 1 1997 10:15 FR BJ SERVICES-VERNAL 801 789 4530 TO 7894436

P.01

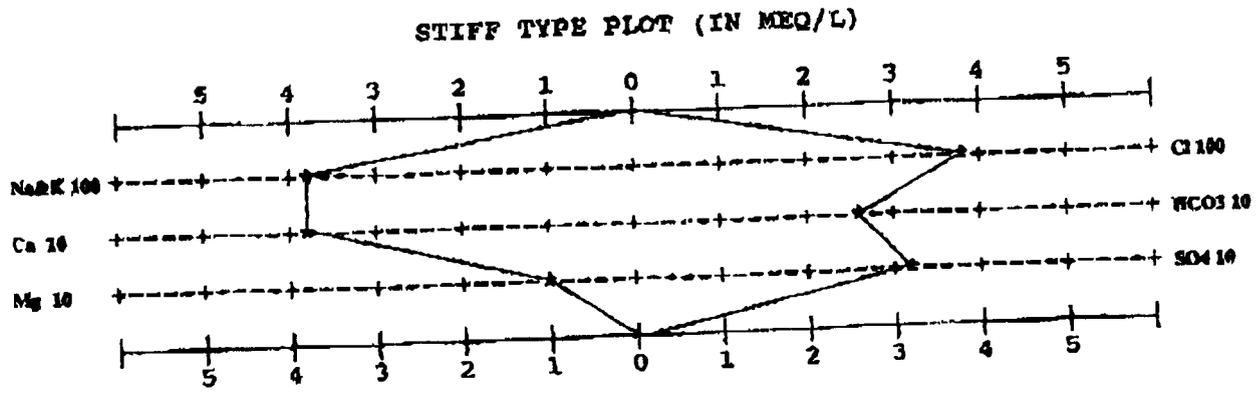
FW01W273

**BJ SERVICES COMPANY**  
**WATER ANALYSIS #FW01W273**  
**VERNAL LAB**

*Morgan State*  
*3-36, 5-36, 13-36*

GENERAL INFORMATION	
OPERATOR:	COASTAL
WELL:	MORGAN STATES-36, 13-36, 3 <sup>3/2</sup>
FIELD:	NATURAL BUTTE
SUBMITTED BY:	TROY HINEMAN
WORKED BY:	TROY HINEMAN
PHONE NUMBER:	789-4436
DEPTH:	
DATE SAMPLED:	11/19/97
DATE RECEIVED:	11/20/97
COUNTY:	UINTAH
FORMATION:	WASATCH
STATE:	UT

SAMPLE DESCRIPTION	
FILTERED WITH A DARK TINT.	
PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY:	1.030 @ 68°F PH: 7.00
RESISTIVITY (CALCULATED):	0.155 ohms @ 75°F
IRON (FE++) :	50 ppm
CALCIUM:	777 ppm
MAGNESIUM:	118 ppm
CHLORIDE:	13,201 ppm
SODIUM+POTASS:	11,839 ppm
IODINE:	
SULFATE:	1,553 ppm
TOTAL HARDNESS	2,429 ppm
BICARBONATE:	1,540 ppm
SODIUM CHLORIDE (calc)	21,715 ppm
TOT. DISSOLVED SOLIDS:	30,562 ppm
POTASSIUM CHLORIDE:	
REMARKS	
CARBOHYDRATES .204	



ANALYST TROY HINEMAN

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

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1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476**

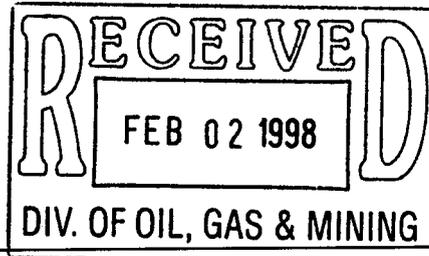
4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ,Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Perforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Perforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Perf. frac &amp; acidize</u>	
<input type="checkbox"/> Other _____			
Approximate date work will start _____		Date of work completion <u>1/1/98</u>	
		Report results of <b>Multiple Completions</b> and <b>Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for work performed on the subject well.



13. Name & Signature Bonnie Carson Title Sr. Environmental Analyst Date 1/30/98

(This space for State use only)

NO tax credit 10/98

**Recompletion**

- 11/3/97 **Kill well & ND WH & NU BOPS.** Road rig f/NBU #288 to MS #4-36. MI & RU PU spot equip. SDFN @ 5:30 pm.  
DC: \$1,538 TC: \$1,538
- 11/4/97 **RIH to 7250, spot acid.** ITP 350, ICP 600. Hook up pump lines, change equip to 2 7/8 & blow down well & catch plunger. Kill well w/60 bbls 3% KCL. Nipple down well head, nipple up BOP. Single out drlg line. LD hanger & blast jt. POOH. Had to kill twice coming out of hole. Rig up Cutters, RIH. Set CIBP at 7280'. POOH, test casing to 5000 psi. OK. PU 4" select fire perf gun. RIH. Correlate to CNL/CDT and shot 12 holes, 4847,4918, 5344, 5350, 5482, 5524, 5788, 5795, 6947, 6999, 7081, 7252. POOH, check gun, no pressure after any shot. SIFN.  
DC: \$5,943 TC: \$7,481
- 11/5/97 **Well flowing, prep to swab.** ICP 300 psi. Blew down. RIH 50 jts. Well kicked, circ out, gas bubble. RIH 7257. RU BJ and spot 2500 gal 15% HCL across perms. LD 82 jts. PU blast sub. Land @ 4775 w/PSN at 4744 with 150 total jts in hole. ND BOPS, NU well head. RU break down perf w/15%HCL at 6.4 to 9.4 bpm. 2290 to 4000 psi never balled out. Surge ball establish inj rate of 2480 psi @ 6.5 BPM. ISIP 1350 5 min. 1220 10 min, 1090 15 min 1020 psi. TP 40, CP 20. Opened to tank on 48 clk to unload well. TP 75 CP 80, flowed 40 bbl in 2 hrs. RD CWS 70. Watch well. Install 18 chk. Left flowing to tank. TP 60, CP 100 @ 20 bbl IIR.  
DC: \$12,924 TC: \$20,405
- 11/11/97 **Flow back after frac.** MIRU BJ Service. Held safety meeting. Test lines to 6000 psi, OK. Frac Wasatch perms 4847-7252 w/47,166 gal. Viking 25 + 215200# 20/40 sand avg rate 30 BPM @ 2725 psi. Max pressure 3000 psi. ISIP 1700 psi 5 min 1640 psi 10 min, 1460 psi 15 min 1350 psi. Start flow back on 18 ck. Note: sand traced w/ 90 mcl IR-192.  
DC: \$59,010 TC: \$79,416
- 11/14/97 **Run wireline.** Ran wire line check PBTD 6138. (1142' sand on CIBP). 4 perms covered.  
DC: \$669 TC: \$80,084
- 12/16/97 **RU snubbing unit.** MIRU GWS 101. Rig up Cutters, RIH, set BP in tbg @ 4696'. POOH. RD Cutters WL. Blow down tbg. ND WH, NU BOP. Hook back side to sales line. Secure well for night. Left on production.  
DC: \$7,638 TC: \$87,722
- 12/17/97 **RIH w/4 5/8" mill.** TP 0, ICP 300#. RU snb unit. POOH w/2 7/8" tbg, SN, 1 jt 2 7/8" tbg & notched collar. RIH w/4 3/4" mill. Pmp off sub, 1 jt 2 7/8" tbg, XN nipple & 36 jts 2 7/8" tbg. Tag up @ 1170', will not go dwn hole. POOH w/2 7/8" tbg & tools. Mill looks OK, had to send 4 3/4" mill in to have turned dwn to 4 5/8" OD mill. SWI. SDFN.  
DC: \$10,817 TC: \$98,539
- 12/18/97 **RIH & CO.** FCP 250#. RIH w 4 5/8" mill, POS, 1 jt 2 7/8" tbg, XN nipple & 146 jts 2 7/8" tbg. RD snubbing unit. RU rig floor & equip. Talley & PU 2 7/8" tbg. Tag sand @ 5816, 1464' fill to CIBP @ 7280, 3584' to PBTD, CO to 5907'. Circ clean, pmp 10 bbls 2% KCL dwn tbg. POOH w/2 7/8" tbg. EOT @ 4818'. SWI. SDFN.  
DC: \$9,952 TC: \$108,491
- 12/19/97 **POOH w/2 7/8" tbg.** SICP 75#, SITP 75#. Blow dwn, RIH w/2 7/8" tbg. Tag @ 5897'. RU pwr swvl & string float. Brk circ w/air foam unit. CO to 6065'. Fell free. RIH w/2 7/8" tbg. Tag @ 7067'. POOH to string float. RIH, PU pwr swvl & string float, brk circ w/air foam unit. No circ, pres up to 2000#. Bled tbg off. POOH w/2 7/8" tbg. EOT @ 1787', tried to brk circ & tbg is plugged. SWI.  
DC: \$8,488 TC: \$118,979

12/20/97 **RIH & CO.** SICIP 605#, SITP 200#. Blow dwn, tbg kicking fluid. RU air foam, pres up w/air to 1000#. Blow dwn. POOH w 2 7/8" tbg to 2504'. Tbg kicking out foam & sand, blow dwn tbg. Clean up, pmp foam dwn csg, float valve sealed off. Pmpd dwn tbg to clean up sand. Pmpd 10 bbls 2% KCL f/kill, RIH w 2 7/8" tbg. Tag @ 6101' PU pwr swvl & string float, brk circ w/air foam unit. CO several abridges to 7009', circ clean, pmpd 10 bbls 2% KCL, RD pwr swvl. POOH w/2 7/8" tbg. EOT @ 4818'. SWI. SDFN.  
DC: \$6,624 TC: \$123,603

12/21/97 **RIH & CO.** SITP 300, SICIP 800. Kill tbg 10 bbls 2% KCL. RIH tbg, tag @ 6955. Install dart. RU PS, break circ foam & CO to 7280, to top of CIB. Drill on CIB 2 hrs. Fell thru. Clean up hole. POH to float dart, kill tubing POH to 4786 at 5:30 PM. SWSDFN.  
DC: \$7,177 TC: \$130,780

12/22/97 **RIH w/tbg.** SICIP 1250 psi, SITP 800 psi. Blew well down, RIH w/tbg. Tag fill @ 8862'. PU swivel & RU air foam unit, brk circ w/foam. Clean out sand to 8897'. RIH to 9111'. Tag fill clean out sand to 9237'. Pushing pieces of CIBP on top of sand. Circ hole clean. POOH w/tbg above perms (EOT @ 4818'). SDFN.  
DC: \$6,757 TC: \$137,527

12/23/97 **RIH w/tbg to CO sand.** SICIP 1150 psi, SITP 1000 psi. Blow down & kill tbg w/10BW. RIH w/tbg to 9237'. Tag sand, RU swivel & air foam unit. Brk circ w/foam. Clean out sand to 9360' pushing pieces of CIBP on top of sand. Circ hole clean. POOH above perms. SDFN.  
DC: \$7,485 TC: \$145,022

12/24/97 **RIH w/2 7/8" tbg & ck f/fill.** SICIP 1150#, SITP 750#. Blow dwn, pmpd 10 bbls 2% KCL dwn tbg. RIH w/2 7/8" tbg to 9278', 82' fill over night. RU pwr swvl & string float. CO to 9410' PBTD. Pushed pieces of CIBP to btm, circ clean. RD pwr swvl. POOH w/2 7/8" tbg. EOT @ 4318'. SDFN.  
DC: \$7,110 TC: \$152,132

12/25/97 SD for Christmas

12/26/97 **Flowing well bck.** SICIP 1200#, SITP 925#. Blow dwn. RIH w/ 2 7/8" tbg. Tag fill @ 80', 9380' fill. RU pwr swvl & string float. Brk circ w/air foam unit. CO to 9410', circ clean. POOH & LD 7 jts 2 7/8". Land tbg w/EOT @ 9210'. ND BOP, NU WH. Drop ball & pmp 35 bbls 2% KCL. Press up to 2300#. Press dropped to 0# & tbg on vac. SI csg & run line f/tbg to flow back tank. SICIP 450#. Turn over to flow bck crew. SDFN. Flowback 0 mcf, 0 BW, FTP 300#, FCP 1150#, SI.  
DC: \$7,354 TC: \$159,486

12/27/97 Flwg 500 MCF, 0 BW, FTP 1000#, CP 1250#, 14/64" ck.

12/28/97 Flwg 882 MCF, 44 BW, FTP 700#, CP 1050#, 16/64" ck, 20 hrs, dn 4 hrs, turn to sales.

12/29/97 Flwg 1052 MCF, 6 BW, FTP 775#, CP 1000#, 16/64" ck, 24 hrs.

12/30/97 Flwg 1120 MCF, 51BW, FTP 725#, CP 950#, 16/64" ck, 24 hrs.

12/31/97 Flwg 1198 MCF, 51 BW, FTP 680#, CP 900#, 20/64" ck, 24 hrs.

1/1/98 Flwg 1175 MCF, 44 BW, FTP 790#, CP 860#, 20/64"ck, 24 hrs.  
Prior prod. Flwg 471 MCF, 10 BW, FTP 268#, CP 550#, 50/64" ck, 24 hrs.  
**Final Report**

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476**

4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ,Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

Abandon  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Multiple Completion  
 Other \_\_\_\_\_

New Construction  
 Pull or Alter Casing  
 Recomplete  
 Perforate  
 Vent or Flare  
 Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

Abandon\*  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Other Clean Out to PBTD

New Construction  
 Pull or Alter Casing  
 Perforate  
 Vent or Flare  
 Water Shut-Off

Date of work completion 5/5/98

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

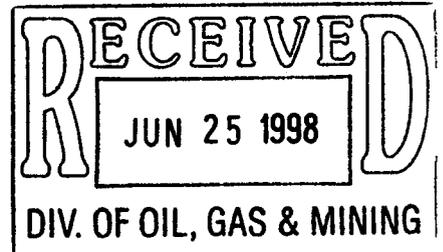
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological well history for work performed on the subject well.

13. Name & Signature Bonnie Carson Title Sr. Environmental Analyst Date 6/23/98

(This space for State use only)



**Clean Out to PBTB**

- 5/1/98      **POOH w/2-7/8" tbg.** SICP 650 psi, SITP 120 psi. Blow dn. MI RU rig & equip. Pmpd 10 bbl 2% dn tbg & 35 bbl 2% KCL dn csg. ND WH NU BOP. POOH w/20 jts 2-7/8" tbg. EOT @ 8500'. Pulling free. SWI. SDFN  
DC: \$4,650      CC: \$4,650
- 5/2/98      **Put on prod/or swab.** SICP 475 psi, SITP 475 psi. Blow dn. Pmpd 10 bbls 2% KCL dn tbg f/kill. POOH w/2-7/8" tbg, XN nipple & bit sub. Had to kill well twice while POOH, w/100 bbls 2% KCL. RIH w/NC, 1 jt 2-7/8" tbg, SN & 2-7/8" tbg. Tag sd @ 9319'. LD 4 jts. Land tbg @ 9207' w/NC. 1 jt PSN 293 jts 2-7/8" tbg hanger. ND BOP NU well head. RDMO. SIFN.  
DC: \$4,337      CC: \$8,987
- 5/3/98      **Broaching tbg.** MIRU Delsco. Could not get swab below 4500'. RD swabbers. Call for WL to broach tbg.  
DC: \$1,269      CC: \$10,256
- 5/4/98      **Shut in.** ICP 731 psi, ITP 0 psi. RIH w/slick line to pull plunger & spring. Sheared off. POOH. Run Scratcher to 9212'. POOH. RU swab rig, make 3 runs. FL @ 4700'. Pulled back up. Full of scale. RIH to pull spring stacked out at 7800'. POOH. SDFN. FFL 4700', FCP 230 psi, FTP 0 psi.  
DC: \$1158      CC: \$11,414
- 5/5/98      **Producing.** ICP 800 psi, ITP 450 psi. Blow well dn. Start to swab. IFL 2500'. Make 8 swab runs, rec 30 bbls. Put well on line. RD swab unit. FTP 350 psi, FCP 750 psi, FFL 3000'. **Final Report.**  
DC: \$981      CC: \$12,395

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

5. Lease Designation and Serial Number  
**ML-22265**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**N/A**

8. Well Name and Number:  
**Morgan State #4-36**

9. API Well Number:  
**43-047-32729**

10. Field and Pool, or Wildcat  
**Natural Buttes Field**

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455**

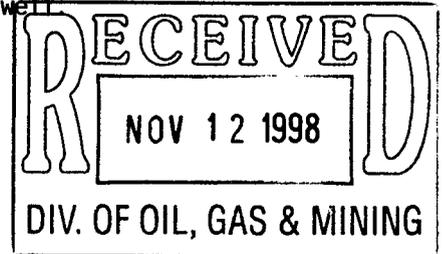
4. Location of Well  
Footages: **1912' FSL & 649' FWL** County: **Uintah**  
QQ, Sec., T., R., M.: **NW/SW Section 36-T9S-R21E** State: **Utah**

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Perforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Perforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Site Security Plan</u>	
<input type="checkbox"/> Other _____			
Approximate date work will start _____		Date of work completion _____	
		Report results of <b>Multiple Completions and Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

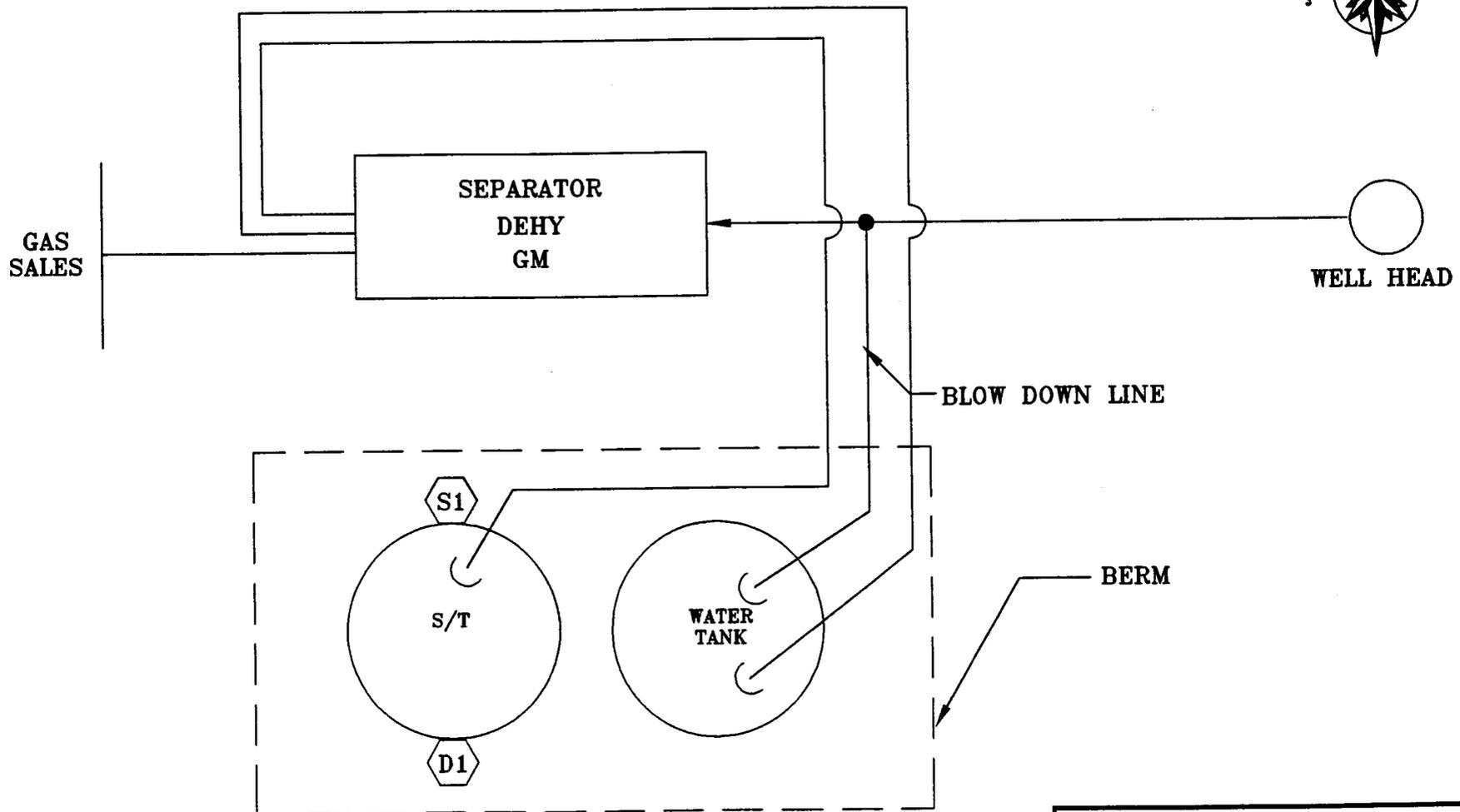
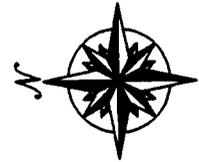
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached updated site security diagram for the subject well.



13. Name & Signature Sheila Bremer Title Environmental & Safety Analyst Date 11/9/98

(This space for State use only)



**Coastal Oil & Gas Corporation**

MORGAN STATE #4-36  
NW SW SEC. 36 T9S-R21E  
ML-22265

This lease is subject to the site security plan for the Natural Buttes Field for Coastal Oil & Gas. The plan is located at: Coastal Oil & Gas Corp. Vernal District Office 1368 South 1200 East Vernal, UT 84078

POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION

VALVE	LINE PURPOSE	POSITION	SEAL INSTALLED
D1	Drain	Closed	Yes
S1	Sales	Closed	Yes

POSITION OF VALVES AND USE OF SEALS DURING SALES

VALVE	LINE PURPOSE	POSITION	SEAL INSTALLED
D1	Drain	Closed	Yes
S1	Sales	Open	No

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT -- for such proposals

6. Lease Designation and Serial Number ML-22265
7. Indian Allottee or Tribe Name N/A
8. Unit or Communitization Agreement N/A
9. Well Name and Number Morgan State #4-36
10. API Well Number 43-047-32729
11. Field and Pool, or Wildcat Natural Buttes Field

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)
2. Name of Operator Coastal Oil & Gas Corporation
3. Address of Operator 1368 South 1200 East Vernal, UT 84078
4. Telephone Number (435)-781-7023
5. Location of Well Footage : 1912'FSL & 649'FWL    County : Uintah OO, Sec. T., R., M. : NWSW Section 36-T9S-R21E    State : Utah

**12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input checked="" type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Date of Work Completion 5/3/01

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached Chronological well history for the worked performed on the subject well.

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MAY 21 2001

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.  
Name & Signature Cheryl Cameron Title Sr. Regulatory Analyst Date 05/16/01

(State Use Only)

**COASTAL OIL & GAS CORPORATION  
PRODUCTION REPORT**

**CHRONOLOGICAL HISTORY**

**MORGAN STATE #4-36**  
NWSW Section 36, T9S-R21E  
Natural Buttes Field  
Uintah County, UT

- 4/24/01 ROAD RIG & EQUIP F/ THE NBU #245. MIRU, WAIT ON EQUIP, NDWH, NUBOP, RIG UP 2 7/8" TBG EQUIP. TBG HANGER STUCK IN W.H. WORKED LOOSE. TBG STUCK, WORKED LOOSE, (NO TBG TO TAG PBTB). POOH W/2 7/8" PROD BHA. S.L.M. SWI, SDFD.
- 4/25/01 SICP: 125#, BLOW WELL DN, 5 MIN. POOH W/2 7/8" PROD BHA. S.L.M. HEAVY EXT SCALE 5500'-6000' SLM: 262 JT'S, 8201'. TBG DETAIL: 294 JT'S, 9206'. SN JT HAD 2 PLUNGER'S & 1 SPRING, ON SEAT, W/15' OF SAND ON TOP. RIH W/4 5/8" MILL TOOTH BIT & SCRAPPER. TAGGED @ 8900'. TRY TO REVERSE CIRC W/275 BBL 2% KCL @ 5 BPM, NO RETURN'S. POOH, EOT @ 7983'. SWI, SDFD.
- 4/27/01 EOT @ 7893, SICP: 300#, SITP: 200#. BLOW WELL DN, 45 MIN. RIH & TAG FILL @ 8821'. RIG UP DRLG EQUIP & WEATHERFORD AIR. BRK CIRC. START C-O F/8821' TO 9332', 511' SCATTERED BRIDGE'S, BP @ 9235' CIRC WELL CLEAN, RIG DN DRLG EQUIP. POOH W/4 5/8" BIT & SCRAPPER. SWI, SDFD. EOT @ 5495'
- 4/28/01 EOT @ 5495' SICP: 360# SITP: 300# BLOW DN 30 MIN. FINISH POOH W/4 5/8" BIT. RIH W/N-C. 1 JT 2 7/8" TBG, SN, 295 JT'S 2 7/8" TBG, EOT @9252'. MIRU DOWELL ACID EQUIP. PMP 20 BBL 2% KCL PAD. PMP 3500 GAL 15% HCL W/ADDITIVES (83 BBL) 3 BPM 50#, NO RETURN. FLUSH OUT ETO @ 9252 W/54 BBL 2%KCL. RDMO DOWELL. POOH & LAY DN 71 JT'S 2 7/8" TBG, LAND TBG. EOT @ 7064, SN @ 7030. RIG DN 2 7/8" TBG EQUIP, NDBOP, NUWH. RIG DN RIG & EQUIP. SWI F/ 24 HR'S & LET ACID SOAK. SDFD.
- 4/29/01 ITP: 175 PSI ICP: 300 PSI IFL: 5400' MADE 14 RUNS. REC 40 BBLS. FFL: 6300' FTP: 0 PSI FCP: 330 PSI. SDFN.
- 4/30/01 SITP: 484 SICP: 358 BLOW DOWN TBG. IN 30 MINS. MADE 18 SWAB RUNS. REC 50 BBLS WATER EFL: 5000 FFL: 6500 ETP: 0 ETP: 402.
- 5/01/01 SITP: 430 SICP: 395 BLOW DOWN TBG IN 25 MINS MADE 3 SWAB RUN REC 20 BBLS WATER. DROP STANDING VALUE & PLUNGER. WOULD GO PAST 4000' PULL STANDING VALUE & PLUNGER. MADE 2 SWAB RUNS REC 10 BBLS. BROUCH TBG. TIGHT SPOTS @ 3750-3910 & 4430 EFL: 5200 EPT: 0 ECP: 400 SWE SDFN. TC
- 5/02/01 R.U. SLICKLINE & BROUCH TBG @ 3790. BLOW DOWN TBG MADE 2 SWAB RUNS REC 6 BBLS. WATER DROP PLUNGER WOULD NOT COME BACK UP. BROUCH TBG @3790' EFL: 5200 ETP: 200 ECP: 375 SWE SDFN.
- 5/03/01 SITP: 450 SICP: 450 BLOW DOWN TBG EFL 4500' MADE 3 SWAB RUN REC 8 BBLS WATER. DROPPED PLUNGER CHASE TO BOTTOM W/S CUPS CYCLE PLUNGER 3 TIMES. PUT WELL BACK ON PROD.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: El Paso Production Oil & Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 8 South 1200 East CITY Vernal STATE Utah ZIP 84078		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		8. WELL NAME and NUMBER: Exhibit "A"
PHONE NUMBER: 435-789-4433		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

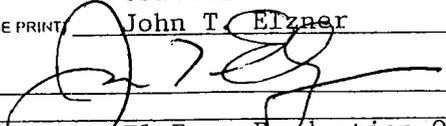
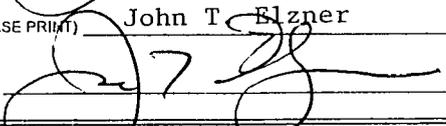
COUNTY:  
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.  
See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation	
NAME (PLEASE PRINT) John T. Elzner	TITLE Vice President
SIGNATURE 	DATE 06-15-01
El Paso Production Oil & Gas Company	
NAME (PLEASE PRINT) John T. Elzner	TITLE Vice President
SIGNATURE 	DATE 06-15-01

(This space for State use only)

**RECEIVED**  
JUN 19 2001  
DIVISION OF  
OIL, GAS AND MINING

State of Delaware  
Office of the Secretary of State

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PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

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JUN 14 2001

DIVISION OF  
OIL, GAS AND MINING



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

0610204 8100

AUTHENTICATION: 1061007

010162788

DATE: 04-03-01

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION

David L. Siddall
Vice President

Attest:

Margaret E. Roark
Margaret E. Roark, Assistant Secretary

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STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:00 AM 03/09/2001
010118394 - 0610204

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH		4-KAS
2. CDW	<input checked="" type="checkbox"/>	5-LP <input checked="" type="checkbox"/>
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

**X** Merger

The operator of the well(s) listed below has changed, effective: **3-09-2001**

<b>FROM: (Old Operator):</b>
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

<b>TO: ( New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

CA No.

Unit:

**WELL(S)**

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
WONSITS STATE 8-32	43-047-33681	99999	32-07S-22E	STATE	GW	APD
STATE 32 21 (CA 9C-204)	43-047-30754	120	32-08S-21E	STATE	GW	P
OURAY 32-88 (CA 9C-204)	43-047-33391	12870	32-08S-21E	STATE	GW	P
OURAY 32-89 (CA 9C-204)	43-047-33392	12754	32-08S-21E	STATE	GW	P
OURAY 32-146 (CA 9C-204)	43-047-33623	12862	32-08S-21E	STATE	GW	P
GLEN BENCH ST 12-36-8-21 (CA 9C-205)	43-047-33287	12549	36-08S-21E	STATE	GW	P
TRIBAL 31-60 (CA 84688C)	43-047-33340	12563	31-08S-22E	STATE	GW	P
STATE 31 32 (CA 84688C)	43-047-30906	175	31-08S-22E	STATE	GW	P
TRIBAL 31-98 (CA 84688C)	43-047-33375	12685	31-08S-22E	STATE	GW	P
TRIBAL 31-128 (CA 84688C)	43-047-33460	12722	31-08S-22E	STATE	GW	P
TRIBAL 31-129 (CA 84688C)	43-047-33461	12739	31-08S-22E	STATE	GW	P
TRIBAL 31-132 (CA 84688C)	43-047-33462	12776	31-08S-22E	STATE	GW	P
MORGAN STATE 1-36	43-047-30600	5445	36-09S-21E	STATE	GW	P
MORGAN STATE 2-36	43-047-32585	11927	36-09S-21E	STATE	GW	P
MORGAN STATE 3-36	43-047-32589	12002	36-09S-21E	STATE	GW	P
<del>MORGAN STATE 4-36</del>	43-047-32729	12068	36-09S-21E	STATE	GW	P
MORGAN STATE 5-36	43-047-32735	12069	36-09S-21E	STATE	GW	P
MORGAN STATE 15-36	43-047-33094	12384	36-09S-21E	STATE	GW	S
MORGAN STATE 16-36	43-047-33093	12407	36-09S-21E	STATE	GW	P
HELLS HOLE 9103	43-047-31870	11027	36-10S-25E	STATE	GW	P

**OPERATOR CHANGES DOCUMENTATION**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 608186-0143



JAN. 17. 2003 3:34PM

PORT

NO. 173

P. 2

**WESTPORT OIL AND GAS COMPANY, L.P.**

410 Seventeenth Street #2300 Denver Colorado 80202-4436  
Telephone: 303 573 5404 Fax: 303 573 5609

February 1, 2002

Department of the Interior  
Bureau of Land Management  
2850 Youngfield Street  
Lakewood, CO 80215-7093  
Attention: Ms. Martha Maxwell

RE: BLM Bond CO-1203  
BLM Nationwide Bond 158626364  
Surety - Continental Casualty Company  
Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Conversion of Westport Oil and Gas Company, Inc., into Westport Oil and Gas Company, L.P.  
Assumption Rider - Westport Oil and Gas Company, L.P.

Dear Ms. Maxwell:

Pursuant to our recent conversations, please find the following list of enclosures for the BLM's consideration and approval:

Two (2) Assumption Riders, fully executed originals.  
Copies of Belco Energy Corporation merger into Westport Oil and Gas Company, Inc.  
Copies of Westport Oil and Gas Company, Inc., conversion into Westport Oil and Gas Company, L.P.  
List of all Federal/BIA/State Leases - Belco/Westport's leases - in all states.

Please inform us of any additional information needed to complete the change to Westport Oil and Gas Company, L.P., as operator of record.

I thank you for your assistance and cooperation in this matter. Please do not hesitate contacting the undersigned, should a question arise.

Sincerely,  
Westport Oil and Gas Company, L.P.

Debby J. Black  
Engineer Technician

Encl:



United States Department of the Interior **RECEIVED**

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

FEB 22 2002

DIVISION OF  
OIL, GAS AND MINING

In Reply Refer To:  
3106  
UTU-25566 et al  
(UT-924)

FEB 21 2002

NOTICE

Westport Oil and Gas Company L.P. : Oil and Gas  
410 Seventeenth Street, #2300 :  
Denver Colorado 80215-7093 :

Name Change Recognized

Acceptable evidence has been received in this office concerning the name change of Westport Oil and Gas Company, Inc. into Westport Oil and Gas Company, L.P. with Westport Oil and Gas Company, L.P. being the surviving entity.

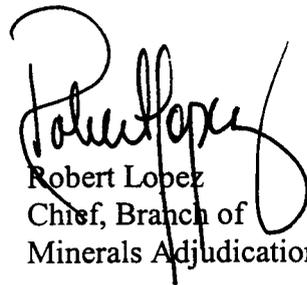
For our purposes, the name change is recognized effective December 31, 2001.

The oil and gas lease files identified have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our computer program. We have not abstracted the lease files to determine if the entities affected by this name change hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested recorded title or operating rights interests. We will be notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify additional leases in which the entities maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Westport Oil and Gas Company, Inc. to Westport Oil and Gas Company, L.P.. You may accomplish this either by consent of surety rider on the original bond or a rider to the original bond. The bonds are held in Colorado.

UTU-03405  
UTU-20895  
UTU-25566  
UTU-43156  
UTU-49518  
UTU-49519  
UTU-49522  
UTU-49523



Robert Lopez  
Chief, Branch of  
Minerals Adjudication

cc: Moab Field Office  
Vernal Field Office  
MMS, Reference Data Branch, MS3130, PO Box 5860, Denver CO 80217  
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

# memorandum

Branch of Real Estate Services  
Uintah & Ouray Agency

Date: 5 December, 2002

Reply to  
Attn of: Supervisory Petroleum Engineer

Subject: Modification of Utah Division of Oil, Gas and Mining Regulations

To: Director, Utah Division of Oil, Gas and Mining Division: John Baza

We have been advised of changes occurring with the operation of your database for Change of Operator. You will be modifying your records to reflect Change of Operator once you have received all necessary documentation from the companies involved, and perhaps in advance of our Notice of Concurrence/Approval of Change of Operator where Indian leases are involved.

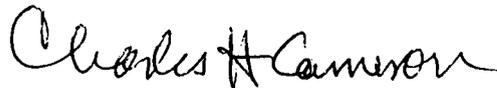
We have no objection.

With further comment to Rulemaking, I wish to comment concerning the provision of Exhibits for upcoming Hearings. I would like to see the Uintah & Ouray Agency, BIA, and the Ute Indian Tribe, Energy & Mineral Resources Department added to the list of those parties that receive advance Exhibits so as to allow us to have research time prior to Hearing dates. We will be able to provide a more informed recommendation to the Oil, Gas and Mining Board. It would be best if we would receive only those Exhibits that concern Indian lands, specifically on or adjacent to Indian lands. This may be a difficult situation to attain, as it is not always clear where 'on or adjacent' occurs.

I am aware that you have gone to extra effort to correct this matter already, and I fully appreciate it. My request is intended only to allow the addition of Uintah & Ouray Agency and Ute Indian Tribe to the official listing.

We appreciate your concern, and hope that these comments are timely enough for consideration in the revision process.

CC: Minerals & Mining Section of RES  
Ute Energy & Mineral Resources Department: Executive Director  
chrono





IN REPLY REFER TO:  
Real Estate Services

## United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

Washington, D.C. 20240

FEB 10 2003

Carroll A. Wilson  
Principal Landman  
Westport Oil and Gas Company, L.P.  
1368 South 1200 East  
Vernal, Utah 84078

Dear Mr. Wilson:

This is in response to your request for approval of RLI Insurance Company's Nationwide Oil and Gas Lease Bond No. RLB0005239 executed effective December 17, 2002, (\$150,000 coverage) with Westport Oil and Gas Company, L. P., as principal.

This bond is hereby approved as of the date of this correspondence and will be retained in the Bureau of Indian Affairs' Division of Real Estate Services, 1849 C Street, NW, MS-4512-MIB, Washington, D.C. 20240. All Bureau oil and gas regional offices and the surety are being informed of this action.

In cases where you have existing individual and/or collective bonds on file with one or more of our regional offices, you may now request those offices, directly, to terminate in lieu of coverage under this Nationwide Bond.

Enclosed is a copy of the approved bond for your files. If we may be of further assistance in this matter, please advise.

Sincerely,

Director, Office of Trust Responsibilities

ACTING

Enclosure

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: El Paso Production Oil & Gas Company		8. WELL NAME and NUMBER: Exhibit "A"
3. ADDRESS OF OPERATOR: 9 Greenway Plaza Houston TX 77064-0995		9. API NUMBER:
PHONE NUMBER: (832) 676-5933		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE:  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY:  STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

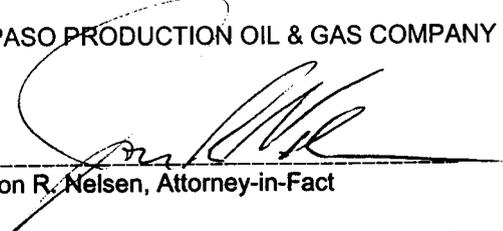
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator change to Westport Oil and Gas Company, L.P., 1670 Broadway, Suite 2800, Denver, CO. 80202-4800, effective December 17, 2002.

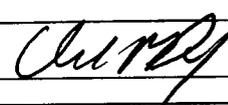
BOND # \_\_\_\_\_

State Surety Bond No. RLB0005236  
Fee Bond No. RLB0005238

EL PASO PRODUCTION OIL & GAS COMPANY

By:   
Jon R. Nelsen, Attorney-in-Fact

**RECEIVED**  
**FEB 28 2003**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <b>WESTPORT OIL AND GAS COMPANY, L.P.</b> David R. Dix	TITLE <b>Agent and Attorney-in-Fact</b>
SIGNATURE 	DATE <b>12/17/02</b>

(This space for State use only)

Form 3160-5  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.  
**SEE ATTACHED EXHIBIT "A"**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**SEE ATTACHED EXHIBIT "A"**

9. API Well No.  
**SEE ATTACHED EXHIBIT "A"**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**UINTAH COUNTY, UT**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**WESTPORT OIL & GAS COMPANY, L.P.**

3a. Address  
**P.O. BOX 1148 VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7023**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEE ATTACHED EXHIBIT "A"**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA.

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon <b>SUCCESSOR OF OPERATOR</b>
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed if testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator determined that the site is ready for final inspection.

WESTPORT OIL & GAS COMPANY, L.P., IS CONSIDERED TO BE THE OPERATOR ON THE ATTACHED DESCRIBED LANDS AND IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE FOR THE OPERATIONS CONDUCTED ON THE LEASED LANDS OR PORTIONS THEREOF, BOND COVERAGE FOR THIS WELL IS PROVIDED BY FEDERAL NATIONWIDE BOND NO. 158626364, EFFECTIVE FEBRUARY 1, 2002, AND BIA NATIONWIDE BOND NO. RLB0005239, EFFECTIVE FEBRUARY 10, 2003.

RECEIVED

MAR 04 2003

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**CHERYL CAMERON**

Title

**OPERATIONS**

Signature

Date

**March 4, 2003**

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**OPERATOR CHANGE WORKSHEET**

1. GLH
2. CDW /
3. FILE

**X Change of Operator (Well Sold)**

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: <b>12-17-02</b>	
<b>FROM: (Old Operator):</b>	<b>TO: ( New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY	WESTPORT OIL & GAS COMPANY LP
Address: 9 GREENWAY PLAZA	Address: P O BOX 1148
HOUSTON, TX 77064-0995	VERNAL, UT 84078
Phone: 1-(832)-676-5933	Phone: 1-(435)-781-7023
Account No. N1845	Account No. N2115

CA No. Unit:

**WELL(S)**

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MORGAN STATE 3-36	36-09S-21E	43-047-32589	12002	STATE	GW	P
MORGAN STATE 4-36	36-09S-21E	43-047-32729	12068	STATE	GW	P
MORGAN STATE 5-36	36-09S-21E	43-047-32735	12069	STATE	GW	P
MORGAN STATE 6-36	36-09S-21E	43-047-32810	12119	STATE	GW	P
MORGAN STATE 7-36	36-09S-21E	43-047-32811	12134	STATE	GW	P
MORGAN STATE 8-36	36-09S-21E	43-047-32812	12179	STATE	GW	P
MORGAN STATE 9-36	36-09S-21E	43-047-32815	12178	STATE	GW	P
MORGAN STATE 10-36	36-09S-21E	43-047-32816	12135	STATE	GW	P
MORGAN STATE 11-36	36-09S-21E	43-047-32813	12137	STATE	GW	P
MORGAN STATE 12-36	36-09S-21E	43-047-32814	12136	STATE	GW	S
MORGAN STATE 13-36	36-09S-21E	43-047-32817	12130	STATE	GW	S
MORGAN STATE 14-36	36-09S-21E	43-047-33092	13194	STATE	GW	P
MORGAN STATE 16-36	36-09S-21E	43-047-33093	12407	STATE	GW	S
MORGAN STATE 15-36	36-09S-21E	43-047-33094	12384	STATE	GW	S
UTE TRAIL 6 1 (CA CR-12)	06-09S-22E	43-047-30667	185	INDIAN	GW	P
STATE 6-56 (TRIBAL) (CA CR-12)	06-09S-22E	43-047-32699	11839	FEDERAL	GW	P
TRIBAL 6-64 (CA CR-12)	06-09S-22E	43-047-33338	12676	INDIAN	GW	P
FEDERAL 6-100 (CA CR-12)	06-09S-22E	43-047-33401	12695	FEDERAL	GW	P
HALL 6-135 (CA CR-12)	06-09S-22E	43-047-33440	12711	FEE	GW	P
HALL 6-136 (CA CR-12)	06-09S-22E	43-047-33437	12700	FEE	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 02/28/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/04/2003
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 03/06/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
5. If **NO**, the operator was contacted contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM-12/31/2003 BIA-12/5/02

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 02/27/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: 01/09/2003

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 03/27/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 03/27/2003

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: RLB 0005236

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 158626364

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB 0005239

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB 0005238

2. The **FORMER** operator has requested a release of liability from their bond on: N/A

The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

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**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

6. Lease Designation and Serial Number  
**MULTIPLE WELLS- SEE ATTACHED**

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement  
**MULTIPLE WELLS- SEE ATTACHED**

9. Well Name and Number  
**MULTIPLE WELLS- SEE ATTACHED**

10. API Well Number  
**MULTIPLE WELLS- SEE ATTACHED**

11. Field and Pool, or Wildcat  
**MULTIPLE WELLS- SEE ATTACHED**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
 Use APPLICATION FOR PERMIT – for such proposals

1. Type of Well  
 Oil Well       Gas Well       Other (specify)

2. Name of Operator  
**WESTPORT OIL & GAS COMPANY, L.P.**

3. Address of Operator  
**1368 SOUTH 1200 EAST, VERNAL, UTAH 84078**

4. Telephone Number  
**435-781-7060**

5. Location of Well  
 Footage : **MULTIPLE WELLS- SEE ATTACHED**      County : **UINTAH**  
 QQ, Sec, T., R., M : **MULTIPLE WELLS- SEE ATTACHED**      State : **UTAH**

**12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
 (Submit in Duplicate)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment                      | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                    | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                  | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection          | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat                   | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion              | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>VARIANCE</u> |   |

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
 (Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment *           | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Westport Oil & Gas requests a variance to Onshore Order No. 4, Part III C. a. requiring each sales tank be equipped with a pressure-vacuum thief hatch and/or vent line valve. The variance is requested as an economic analysis shows the value of the shrunk condensate will not payout the incremental cost of purchasing and maintaining the valve resulting in a loss of value over the producing life of the well.

The volume lost to shrinkage by dropping the tank pressure from 6 ozs. to 0 psig is shown to be 0.3% of the tank volume. This was determined by lab analysis of a representative sample from the field. The sample shrunk from 98.82% of original volume to 98.52% when the pressure was dropped. The average well produces approximately 6 bbls condensate per month. The resulting shrinkage would amount to 0.56 bbls per month lost volume due to shrinkage. The value of the shrunk and lost condensate does not recoup or payout the cost of installing and maintaining the valves and other devices that hold the positive tank pressure. An economic run based on the loss and costs is attached. Westport Oil & Gas requests approval of this variance in order to increase the value of the well to the operator and the mineral royalty owners.

COPY SENT TO OPERATOR

Date: 7-16-04

Initials: CHS

14. I hereby certify that the foregoing is true and correct.

Name & Signature Debra Domencic Title Environmental Assistant Date 07/12/04

(State Use Only) **Utah Division of Oil, Gas and Mining**

Federal Approval Of This Action Is Necessary

**RECEIVED**

**JUL 14 2004**

Date: 7/15/04

By: [Signature]

DIV. OF OIL, GAS & MINING

WELL	LEGALS	STF LEASE NO	CA NUMBER	API NO
ARCHY BENCH STATE 1-2	NENE SEC 2, T11S, R22E	ML22348A		4304731489
BAYLESS STATE 02-01	SWSE SEC 2, T9S, R20E	ML47044		4304734540
BONANZA 1023-2A	NENE SEC. 2, T10S, R23E	ML47062		4304735347
BONANZA 1023-2C	NENW SEC. 2, T10S, R23E	ML47062		4304735346
BONANZA 1023-2E	SWNW SEC. 2, T10S, R23E	ML47062		4304735345
KENNEDY WASH STATE 16-1	NWNW SEC 16, T8S, R23E	ML47212		4304733589
MORGAN STATE 01-36	SENW SEC 36, T9S, R21E	ML22265		4304730600
MORGAN STATE 02-36	NWNE SEC 36, T9S, R21E	ML22265		4304732585
MORGAN STATE 03-36	NWNE SEC 36, T9S, R21E	ML22265		4304732589
MORGAN STATE 04-36	NWSW SEC 36, T9S, R21E	ML22265		4304732729
MORGAN STATE 05-36	NWSE SEC 36, T9S, R21E	ML22265		4304732735
MORGAN STATE 06-36	SWNW SEC 36, T9S, R21E	ML22265		4304732810
MORGAN STATE 07-36	NENW SEC 36, T9S, R21E	ML22265		4304732811
MORGAN STATE 08-36	NENE SEC 36, T9S, R21E	ML22265		4304732812
MORGAN STATE 09-36	SWNE SEC 36, T9S, R21E	ML22265		4304732815
MORGAN STATE 10-36	SENE SEC 36, T9S, R21E	ML22265		4304732816
MORGAN STATE 11-36	NESW SEC 36, T9S, R21E	ML22265		4304732813
MORGAN STATE 12-36	NESE SEC 36, T9S, R21E	ML22265		4304732814
MORGAN STATE 13-36	SESE SEC 36, T9S, R21E	ML22265		4304732817
MORGAN STATE 14-36	SWSW SEC 36, T9S, R21E	ML22265		4304733092
MORGAN STATE 15-36	SESW SEC 36, T9S, R21E	ML22265		4304733094
MORGAN STATE 16-36	SWSE SEC 36, T9S, R21E	ML22265		4304733093
STATE 01-32	NESW SEC 32, T10S, R22E	ML22798	891008900A	4304734317
STATE 02-32	SESW SEC 32, T10S, R22E	ML22798		4304734831
STATE 03-32	NWSW SEC 32, T10S, R22E	ML22798		4304734832
STATE 1022-32A	NENE SEC. 32, T10S, R22E	ML22798		4304735096
STATE 1022-32J	NWSE SEC 32, T10S, R22E	ML22798		4304735095
STATE 1022-32M	SWSW SEC 32, T10S, R22E	ML-22798		
STATE 1022-32O	SWSE SEC. 32, T10S, R22E	ML22798		4304735315
STATE 11-36	NESW SEC 36, T8S, R21E	ML22051	9C-205	4304734505
STATE 14-16	SWSW SEC 16, T7S, R21E	ML40904		4304731417
STATE 31-32	SESE SEC 31, T8S, R22E	ML28048	VR49I-84688C	4304730906
STATE 32-21	NESE SEC 32, T8S, R21E	ML22052	9C-204	4304730754
STIRRUP STATE 32-1	NWNE SEC 32, T6S, R21E	ML22036	UTU76783X	4304731557
STIRRUP STATE 32-1-J	NWSE SEC 32, T6S, R21E	ML40226		4304731646
STIRRUP STATE 32-2	SENE SEC 32, T6S, R21E	ML22036	UTU76783X	4304731626
STIRRUP STATE 32-6 SWD	NENE SEC 32, T6S, R21E	ML22036	UTU76783X	4304732784
UTE TRIBAL 31-060	NESW SEC 31, T8S, R22E	ML28048	VR49I-84688C	4304733340
WONSITS STATE 01-32	SWNE SEC 32, T7S, R22E	ML47780		4304732820
WONSITS STATE 02-32	SWSE SEC 32, T7S, R22E	ML47780		4304732819
WONSITS STATE 05-32	SENE SEC 32, T7S, R22E	ML47780		4304733678
WONSITS STATE 09-32	NESW SEC 32, T7S, R22E	ML47780		4304734060

**Westport Oil & Gas, L.P.**

**Project Economics Worksheet**

Instructions: Fill in blue boxed areas with before and after project data. The evaluation results are shown below and graphed automatically at the bottom of the page. This sheet is protected to prevent accidental alteration of the formulas. See JTC for changes. OPX entered as annual costs and/or as unit OPX costs for \$/BF and \$/MCF

Project Name: **Condensate Shrinkage Economics**

Is this job a well pull or production rig job ???  N (Y or N)

	BEFORE \$/Year	AFTER \$/Year	DIFFERENCE \$/Year
Gross Oil Revenue	\$1,088	\$1,099	\$11
Gross Gas Revenue	\$0	\$0	\$0
NGL Revenue	\$0	\$0	\$0
PULING UNIT SERVICE			\$0
WIRELINE SERVICE			\$0
SUBSURF EQUIP REPAIRS			\$0
COMPANY LABOR			\$0
CONTRACT LABOR	\$0	\$200	\$200
CONTR SERVICE			\$0
LEASE FUEL GAS	\$0	\$0	\$0
UTILITIES - ELECTRICITY	\$0	\$0	\$0
CHEMICAL TREATING			\$0
MATERIAL & SUPPLY	\$0	\$150	\$150
WATER & HAULING			\$0
ADMINISTRATIVE COSTS			\$0
GAS PLANT PROCESSING			\$0
<b>Totals</b>	<b>\$0</b>	<b>\$350</b>	<b>\$350</b>

**Increased OPX Per Year**

**Investment Breakdown:**

Cap/Exp Code	Cost, \$
Capital \$ 820/830/840	\$1,200
Expense \$ 830/840	\$0
<b>Total \$</b>	<b>\$1,200</b>

Oil Price	\$ 23.00	\$/BO
Gas Price	\$ 3.10	\$/MCF
Electric Cost	\$ -	\$/ HP / day
OPX/BF	\$ 2.00	\$/BF
OPX/MCF	\$ 0.62	\$/MCF

**Production & OPX Detail:**

	Before	After	Difference
Oil Production	0.192 BOPD	0.194 BOPD	0.002 BOPD
Gas Production	0 MCFPD	0 MCFPD	0 MCFPD
Wtr Production	0 BWPD	0 BWPD	0 BWPD
Horse Power	0 HP	0 HP	0 HP
Fuel Gas Burned	0 MCFPD	0 MCFPD	0 MCFPD

**Project Life:**

Life =  Years  
(Life no longer than 20 years)

**Internal Rate of Return:**

After Tax IROR =

**AT Cum Cashflow:**

Operating Cashflow =  (Discounted @ 10%)

**Payout Calculation:**

$$\text{Payout} = \frac{\text{Total Investment}}{\text{Sum(OPX + Incremental Revenue)}} = 1$$

Payout occurs when total AT cashflow equals investment  
See graph below, note years when cashflow reaches zero

Payout =  Years or  Days

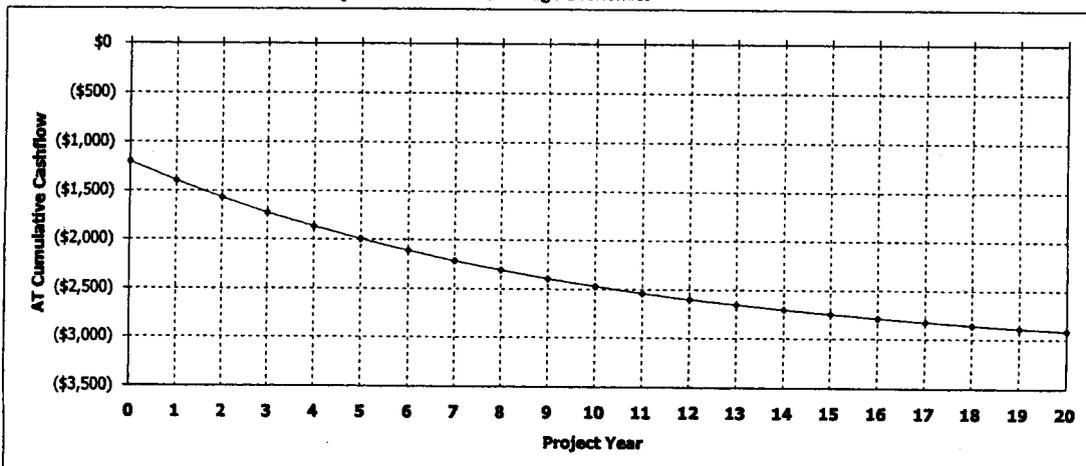
**Gross Reserves:**

Oil Reserves = 6 BO  
Gas Reserves = 0 MCF  
Gas Equiv Reserves = 38 MCFE

**Notes/Assumptions:**

**An average NBU well produces 0.192 Bcpd with no tank pressure. The production is increased to 0.194 Bcpd if 6 ozs of pressure are placed on the tank. The increased production does not payout the valve cost or the estimated annual maintenance costs.**

Project: Condensate Shrinkage Economics



**Westport Oil and Gas, Inc.**  
**NBU/Ouray Field**  
RFL 2003-022

**COMPARISON OF FLASH BACK PRESSURES**

Calculated by Characterized Equation-of-State

Flash Conditions		Gas/Oil Ratio (scf/STbbl) (A)	Specific Gravity of Flashed Gas (Air=1.000)	Separator Volume Factor (B)	Separator Volume Percent (C)
psig	°F				

**Calculated at Laboratory Flash Conditions**

80	70			1.019	
0	122	30.4	0.993	1.033	101.37%
0	60	0.0	—	1.000	98.14%

**Calculated Flash with Backpressure using Tuned EOS**

80	70			1.015	
6.0 oz	65	24.6	0.777	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
4.0 oz	65	24.7	0.778	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
2.0 oz	65	24.7	0.779	1.003	98.82%
0	60	0.0	—	1.000	98.52%
80	70			1.015	
0	65	24.8	0.780	1.003	98.82%
0	60	0.0	—	1.000	98.52%

(A) Cubic Feet of gas at 14.696 psia and 60 °F per Barrel of Stock Tank Oil at 60 °F.

(B) Barrels of oil at indicated pressure and temperature per Barrel of Stock Tank Oil at 60 °F.

(C) Oil volume at indicated pressure and temperature as a percentage of original saturated oil volume.

Note: Bubblepoint of sample in original sample container was 80 psig at 70° F with 1 cc water

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-22265</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>MORGAN STATE 4-36</b>	
2. NAME OF OPERATOR: <b>WESTPORT OIL &amp; GAS COMPANY L.P.</b>		9. API NUMBER: <b>4304732729</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-7024</b>	10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1912'FSL &amp; 649'FWL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 36 9S 21E</b>		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>10/8/2004</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>MAINTENANCE</b>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

**PROG: 7:00 AM MOVE FROM THE CIGE 218#. RU RIG. BLOW WL DN. FIGHT WLHEAD BOLTS 4 HRS. ND WLHEAD, NU BOP. UNLAND 2-7/8" TBG. RIH W/2-7/8" WORK STRING. TAG @ 9250'. (BOTTOM PERF @ 9237 '). POOH LD WORK STRING. EOT @ 8800'. SWI, 5:30 PM.**

NAME (PLEASE PRINT) <b>SHEILA UPCHEGO</b>	TITLE <b>REGULATORY ANALYST</b>
SIGNATURE	DATE <b>10/26/2004</b>

(This space for State use only)

**RECEIVED**

**NOV 02 2004**

(See Instructions on Reverse Side)

**DIV. OF OIL, GAS & MINING**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		<b>1/6/2006</b>
<b>FROM:</b> (Old Operator): N2115-Westport Oil & Gas Co., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	<b>TO:</b> (New Operator): N2995-Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024	

CA No.		Unit:						
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- b. If **NO**, the operator was contacted on:
- 5a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet

7. **Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006

8. **Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 5/15/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006
- Bond information entered in RBDMS on: 5/15/2006
- Fee/State wells attached to bond in RBDMS on: 5/16/2006
- Injection Projects to new operator in RBDMS on: \_\_\_\_\_
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: RLB0005239
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
 The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006. KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**

**MAY 10 2006**

DIV. OF OIL, GAS & MINING

**BLM BOND = C01203**  
**BIA BOND = RLB0005239**

**APPROVED 5/16/06**

*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**RANDY BAYNE**

Signature

*Randy Bayne*

Title

**DRILLING MANAGER**

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**WESTPORT OIL & GAS COMPANY L.P.**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED  
MAY 10 2006

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**BRAD LANEY**

Signature

Title

**ENGINEERING SPECIALIST**

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

*Brad Laney*

Title

Date

**5-9-06**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22265
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> MORGAN STATE 4-36
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047327290000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6500
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1912 FSL 0649 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MORGAN STATE BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/23/2015	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

**KERR-MCGEE OIL & GAS ONSHORE, L.P. IS REQUESTING TO DO A RE-PERF AND RE-FRAC ON THE MORGAN STATE 4-36, SEE THE ATTACHED PROCEDURES.**

Approved by the  
 November 16, 2015  
 Oil, Gas and Mining

Date: \_\_\_\_\_  
 By: Doreen Green

<b>NAME (PLEASE PRINT)</b> Doreen Green	<b>PHONE NUMBER</b> 435 781-9758	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/11/2015	



# Greater Natural Buttes Unit

## MORGAN STATE 04-36

SINGLE

FIELD ID:

### RE-FRAC PROCEDURE

**DATE: 10/22/2015**

**AFE#: 2118389**

**API#: 4304732729**

**USER ID: GBN569 (Frac Invoices Only)**

COMPLETIONS ENGINEER: **Jose Moreno, Denver, CO**  
**(720) 929-4380 (Office)**  
**(201) 424-8022 (Cell)**

**REMEMBER SAFETY FIRST!**

**Name:** Morgan State 04-36

**Location:** \_\_\_\_\_

**LAT:** 39.990605      **LONG:** -109.507163      **COORDINATE:** NAD83 (Surface Location)  
 Uintah County, UT

**ELEVATIONS:**      5014' GL                      5036' KB              *Frac Registry TVD: 7775'*

**TOTAL DEPTH:**      7780'

**PBTD:** 9423'

**SURFACE CASING:**                      8 5/8", 32 #, K55, @ 2494'

**PRODUCTION CASING:**                      5 1/2", 20#, N-80, @ 9498'

Marker Joint **4627-4629**

**TOPS:** \_\_\_\_\_

**BOTTOMS:** \_\_\_\_\_

4624' Wasatch Top  
 7413' Mesaverde Top

7413' Wasatch Bottom  
 9279' Mesaverde Bottom (TD)

**T.O.C. @ 1198' (SLB / 1997)**

**GENERAL NOTES:**

- **Well History / Perforations**
  - **April 1997**

1. PERFORATION RECORD ( <i>Interval, size and number</i> )	2. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9235', 9234', 8902', 8875', 8854' (4 spf/20 holes)	9235'-8854'	See attached chrono 4/9 & 4/15/97
8339', 8498-8502', 8615-19', 8628-31' (4 spf/48 holes)	8339'-8631'	See attached chrono - 4/15/97
7399-401', 7473-74', 7484-85', 7577-78', 7612-13', 7621-22' (4 spf/52 holes); 7908-18' (4spf, 40holes)	7399'-7622'	See attached chrono - 4/15/97

- **October 1997**

**4847', 4918', 5344', 5350', 5482', 5524', 5788', 5795, 6947', 6999', 7081', 7252'**

- **Please note that:**
- **All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.**
- **CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.**
- A minimum of **50** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Schlumberger's GR log dated **4/7/97**
- Hydraulic isolation estimated at **1250'** based upon from Schlumberger's CBL dated 4/7/97 .
- **15** fracturing stages required for coverage.
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- Do not pump clay stabilizer. Consult completions engineer if fresh water will be pumped during frac.
- Please pump Surfactant at 0.75 gpt for this well.
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- Maximum surface pressure **7000 psi**.
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 7000 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

### **PROCEDURE:**

1. NU BOPS. Test BOPs and casing to to **7000 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
2. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
3. Perf the following intervals with 3-1/8" gun, 19 gm, 0.40"hole (**Existing perfs are highlighted in red**).

Stage No.	Top, ft.	Bot., ft	SPF	Holes	Stage Length	Distance to next perf
1	8558	8559	3	3	13	56
	8562	8563	3	3		
	8570	8571	3	3		
2	8580	8581	3	3	12	9
	8586	8587	3	3		
	8591	8592	3	3		
3	8610	8613	4	12	21	18
	<b>8615</b>	<b>8619</b>	<b>3</b>	<b>9</b>		
	<b>8628</b>	<b>8631</b>	<b>3</b>	<b>12</b>		
4	8650	8651	3	3	8	19
	8656	8658	3	6		
5	8670	8672	3	6	13	12
	8678	8679	3	3		
	8682	8683	3	3		
6	8708	8709	3	3	15	25
	8718	8719	3	3		
	8722	8723	3	3		
7	8750	8753	3	9	3	27
8	8818	8819	3	3	14	65
	8830	8832	3	6		
9	8844	8845	3	3	13	12

	8850	8852	3	6		
	<b>8854</b>	<b>8855</b>	<b>4</b>	<b>4</b>		
	8856	8857	3	3		
10	<b>8875</b>	<b>8876</b>	<b>3</b>	<b>3</b>		
	8879	8880	3	3	11	18
	8885	8886	3	3		
11	8920	8921	3	3		
	8925	8926	3	3	11	34
	8930	8931	3	3		
12	8956	8957	3	3		
	8960	8961	3	3	10	25
	8965	8966	3	3		
13	9014	9015	3	3		
	9018	9019	3	3	14	48
	9027	9028	3	3		
14	9102	9103	3	3		
	9110	9111	3	3	15	74
	9116	9117	3	3		
15	9222	9223	3	3		
	9225	9226	3	3		
	9230	9231	3	3	14	105
	<b>9234</b>	<b>9235</b>	<b>4</b>	<b>4</b>		
	<b>9235</b>	<b>9236</b>	<b>4</b>	<b>4</b>		

4. TIH with 2 7/8" P110 and KLX cup straddle system. Follow KLX's procedure (attached separately) to RIH and isolate each stage.
5. Spot 100 gals of 15% HCL, breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1-15 on attached listing.
6. Follow KLX's procedure to TOOH. R/U snubbing unit if necessary.

7. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
8. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Key Contact information

**For design questions, please call** Completion Engineer  
Jose Moreno: 201/424-8022, 720/929-4380

**For field implementation questions, please call**  
Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Brad Burman: 435/828-8006, 435/781-7042

Production Engineer

Robert Miller: 435/781-7041, 435/828-6510

Mickey Doherty: 435/781-9740, 406/491-7294

Ronald Trigo: 435/781-7037, 352/213-6630

Ryckur Schuttler: 435/781-7055, 954/675-1037

Boone Bajgier: 435/781-7096, 713/416-4816

Jake Roberts: 435/781-7015, 716/499-6569

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Vernal IOC

435/781-9751

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435/789-3342

Police: 435/789-5835

Fire: 435/789-4222

**Fracturing Schedules**  
 Name MORGAN STATE 04-36  
 Slickwater Frac

Casing Size	4.5
Recomplete? Pad?	N
ACTIS?	Y
Days on Pad?	3
Wells on Pad?	4

Swabbing Days	0
Production Log	0
DFIT	0
GR only	Y
Low Scale	Y
Clay Stab.	Y

Enter Number of swabbing days here for recompletes  
 Enter 1 if running a Production Log  
 Enter Number of DFITs  
 Enter Y if only Gamma Ray log was run  
 Enter Y if a LOW concentration of Scale inhibitor will be pumped  
 Enter N if there will be NO Clay stabilizer

Copy to new book

Stage	Zone	Perfs		Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Foolage from CBP to Flush	Scale Inhib., gal.		
		Top. ft.	Bot. ft.																	
1	MESAVERDE	8558	8559	3 Varied	Pre-Pad & Pump-in test	0	0	Slickwater	0	0	0	0						0		
	MESAVERDE	8562	8563		0 ISIP and 5 min ISIP			Slickwater	9,000	214	15.0%	0.0%	0	0						5
	MESAVERDE	8570	8571		50 Slickwater Ramp			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	214	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	0	0	28.3%	#DIV/0!	0	0	619	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	0	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	1,024	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	0	0	28.3%	#DIV/0!	0	0	1,024	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	0	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	1,429	0	0	0	0	30
	MESAVERDE				50 ISDP and 5 min ISDP			Sand laden Volume	0	0	0		60,000	60,000	0	0				
2	MESAVERDE	8590	8591	3 Varied	<< Above pump time (min)	0	0	Slickwater	0	0	0	0						0 lbs sand/ft		
	MESAVERDE	8596	8597		Pump-in test			Slickwater	9,000	214	15.0%	0.0%	0	0	Flush depth					
	MESAVERDE	8591	8592		0 ISIP and 5 min ISIP			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	214	0	0	0	0	5
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	619	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	1,024	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	1,024	0	0	0	0	9
	MESAVERDE				50 ISW Sweep			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	405	0	0	0	0	9
	MESAVERDE				50 ISDP and 5 min ISDP			Slickwater	17,000	0	28.3%	#DIV/0!	0	0	1,429	0	0	0	0	30
	MESAVERDE				50 ISDP and 5 min ISDP			Sand laden Volume	0	0	0		60,000	60,000	0	0				
3	MESAVERDE	8610	8613	9 Varied	<< Above pump time (min)	0	0	Slickwater	0	0	0	0						0 lbs sand/ft		
	MESAVERDE	8615	8619		Pump-in test			Slickwater	20,475	488	15.0%	0.0%	0	0	Flush depth					
	MESAVERDE	8628	8631		0 ISIP and 5 min ISIP			Slickwater	38,675	921	28.3%	#DIV/0!	0	0	488	0	0	0	0	10
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	1,408	0	0	0	0	19
	MESAVERDE				50 ISW Sweep			Slickwater	38,675	921	28.3%	#DIV/0!	0	0	921	0	0	0	0	0
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	921	0	0	0	0	19
	MESAVERDE				50 ISW Sweep			Slickwater	38,675	921	28.3%	#DIV/0!	0	0	2,329	0	0	0	0	0
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	921	0	0	0	0	0
	MESAVERDE				50 ISW Sweep			Slickwater	38,675	921	28.3%	#DIV/0!	0	0	2,329	0	0	0	0	19
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	921	0	0	0	0	0
	MESAVERDE				50 ISW Sweep			Slickwater	38,675	921	28.3%	#DIV/0!	0	0	3,250	0	0	0	0	19
	MESAVERDE				50 Slickwater Ramp			Slickwater	0	0	28.3%	#DIV/0!	0	0	921	0	0	0	0	68
MESAVERDE			50 ISDP and 5 min ISDP	Sand laden Volume	0	0	0		136,500	136,500	0	0								
MESAVERDE			<< Above pump time (min)	Sand laden Volume	0	0	0		136,500	136,500	0	0						0 lbs sand/ft		
MESAVERDE			30															0	LOOK	







<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22265
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> MORGAN STATE 4-36
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047327290000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6500  <b>9. FIELD and POOL or WILDCAT:</b> MORGAN STATE LATERAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1912 FSL 0649 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/28/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. has concluded re-perf and re-frac operations on the Morgan State 4-36 well. Re-perf Mesaverde: 8558-9236'. Re-frac with 11,287 bbls slickwater. CIBPs remain at 8908' and 8910'. Please see the attached operations summary report for details. Thank you.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 January 26, 2016

<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/26/2016	

US ROCKIES REGION  
**Operation Summary Report**

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/2/2015	7:00 - 13:00	6.00	SUBSPR	30	A	P		ROAD RIG AND EQUIP FROM ROOSEVELT TO LOCATION. SPOT RIG, R/U RIG AND SPOT OTHER EQUIP. CSG & TBG PSI WAS 350#. CNTRL WELL W/ 60 BBLS TMAC. NDWH, UNLAND TBG. TBG WAS FREE. LAND TBG, NUBOPE AND TBG EQUIP. UNLAND TBG.
	13:00 - 17:00	4.00	SUBSPR	31	I	P		TALLY, P/U & RIH W/ 41 JNTS 2-3/8" P-110 TBG . TAGGED FILL @ 9075' PBD @ 9250'. 175' OF FILL. POOH & L/D 41 JNTS TBG. RU WRANGLER & PIPE RACKS. SWIFN.
11/3/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA- PINCH POINTS.
	7:15 - 13:00	5.75	SUBSPR	45	A	P		SICP & SITP WAS 600PSI. CNTRL WELL W/ 60 BBLS TMAC. RU SCAN TECH. POOH AND LD 247 JNTS 2-3/8" J-55 TBG. MAKE UP WAS AS FOLLOWS: YELLOW BAND= 112 JNTS BLUE BAND = 13 JNTS RED BAND = 122 JNTS THERE WAS CHEMICAL RESIDUE ON OUTSIDE OG TBG THROUGHOUT THE STRING. EXTERNAL PITTING JNT 54-70 (APPROX. 1,700' - 2,208') HEAVY PITTING ON CHAMFOR JNTS 76-190. (APPROX. 2,397' - 5,993')
	13:00 - 15:30	2.50	SUBSPR	31	1	P		MOVE 2-3/8" TBG FROM PIPE RACKS TO TRAILERS. C/O PIPE RAMS SLIPS, ELEVATORS, TONGS FROM 2-3/8" TO 2-7/8". UNLOAD 2-7/8" P-110 TBG UNTO PIPE RACKS.
	15:30 - 17:00	1.50	SUBSPR	31	I	P		PU, TALLY & RIH WITH MILL, XO AND 61 JNTS 2-7/8" TBG. SWIFN. EOT@ 1,950.51'
11/4/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA SLIP, TRIPS, FALLS
	7:15 - 11:00	3.75	SUBSPR	31	I	P		SITP/SICP @ 300PSI. CNTRL WELL W/ 30 BBLS TMAC. CONTINUE TO TIH W/ A TOTAL OF 222 JTS 2-7/8" TBG STACKED OUT @ 7,045'.
	11:00 - 18:00	7.00	SUBSPR	44	D	P		R/U PWR SWVL & FOAM/N2 UNIT. BRK CONV CIRC. C/O TO 7,409.68 W 233 JTS. CIRC WELL CLEAN FOR 30 MIN. L/D PWR SWVL, L/D 1 JT, STAND BACK 5 STDS. EOT @7,045' SWIFN. DRAIN EQUIP.
11/5/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA
	7:15 - 17:00	9.75	SUBSPR	44	D	P		SITP/SICP= 200# CNTRL WELL W/ 30 BBLS TMAC. RIH WITH 12 JTS TAGGED. RU PWR SWVL, BRK CONC. CIRC. . C/O MODERATE SCALE FROM 7409' TO 8488' W/ 267 JTS. CIRC WELL. POOH W/ 12JTS. SWIFN. EOT@ 8108' (255 JTS)
11/6/2015	7:00 - 7:15	0.25	SUBSPR			P		HSM, JSA

US ROCKIES REGION  
Operation Summary Report

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 16:00	8.75	SUBSPR	44	D			SITP/SICP= 300# CNTRL WELL W/ 30 BBLS TMAC.RIH WITH 17 JTS TAGGED UP @ 8990'. RU PWR SWVL, BRK CONC. CIRC. . C/O MODERATE SCALE FROM 8990" TO 9070'. MILLING SLOWED DOWN, GETTING METAL SHAVINGS BACK IN RETURNS. CONT MILLING C/O to 9235' HEAVY SAND IN RETURNS. FOAM UNIT PRESSURED UP TO 2000PSI. RD PWR SWVL.
	16:00 - 20:00	4.00	SUBSPR	31	I	P		POOH WITH 8 JTS. TBG PULLINBG VERY HARD. AS WE WERE TRYING TO REMOVE THE STRING FLOAT, TBG BECAME STUCK IN THE HOLE. BLED WELL DOWN. KILLED TBG PULLED STRING FLOAT. RU PWR SWVL AND SWVL'D OOH UNTIL TBG CAME FREE. RD PWR SWVL L/D DOWN 4 MORE JTS. SWIFWE. DRAINED EQUIP.
11/9/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA
	7:15 - 8:00	0.75	SUBSPR	31	I	P		500# SICP, PUMP 15 BBLS T-MAC DN TBG & TBG PLUGGED, TIH TAG FILL @ 8993' (237' OF FILL), PUH 3 JNTS
	8:00 - 9:00	1.00	SUBSPR	42	B	P		MIRU SWABB EQUIP, MADE 1 SWABB RUN & UNPLUGED TBG, RD SWABB EQUIP
	9:00 - 12:00	3.00	SUBSPR	44	D	P		MIRU WEATHERFORD, PRESSURE UP ON TBG
	12:00 - 15:00	3.00	SUBSPR	42	B	P		SWABB TBG DRY BUT COULDN'T UNPLUG TBG
	15:00 - 17:00	2.00	SUBSPR	31	I	P		TOOH W/ 37 STANDS 2-7/8" TBG, TBG PULLED WET, SWI SDFN
11/10/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA
	7:15 - 8:30	1.25	SUBSPR	42	B	P		400# SICP 0# SITP, SWABB TBG DRY
	8:30 - 15:30	7.00	SUBSPR	31	I	P		TOOH W/ 2-7/8" TBG, BTM JNT WAS PACKED FULL OF SAND, M/U 4-3/4" MILL, TIH W/ 2-7/8" TBG TO TOP PERF, DRAIN PUMP & LINES, SWI, SDFN
11/11/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, JSA
	7:15 - 9:00	1.75	SUBSPR	31	H	P		300# SICP, BREAK CIRC W/ FOAM UNIT IN 1HR 45MINS
	9:00 - 10:00	1.00	SUBSPR	31	I	P		TIH TO 8901'
	10:00 - 16:00	6.00	SUBSPR	44	D	P		P/U PWR SWVL, BREK CIRC W/ FOAM UNIT, C/O FROM 8901' TO 9235', CIRC WELL CLEAN, RD PWR SWVL
	16:00 - 17:30	1.50	SUBSPR	31	I	P		TOOH & LD 59 JTS TBG, LAND TBG ON HANGER W/ 232 JTS 2-7/8" TBG, EOT @ 7378', SWI, DRAIN PUMP & LINES, SDFN
								KB 12' HANGER .83' 232 JTS 2-7/8" P-110 7364.07' 4-3/4" MILL 1.89' EOT @ 7378.79'
11/23/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM.
	7:00 - 8:30	1.50	FRAC	30	G	P		RD RIG & ROAD RIG F/ NBU 920-22J.

US ROCKIES REGION  
Operation Summary Report

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:30 - 11:30	3.00	FRAC	30	A	P		MIRU RU RIG & SPOT EQUIP. SICP = 450 PSI. BLOW WELL DWN T/ FBT. ND WH. NU 5K DRL OUT STK. RU RIG FLOOR & TBG EQUIP. MAKE UP 2 7/8 X 10' PUP JT. UNLAND 7 1/16 TBG HNGR. LD TBG HNGR.
	11:30 - 15:30	4.00	FRAC	31	I	P		POOH W/ 232 JTS 2 7/8 P-110 TBG & BIT SUB & 4 3/4 MILL. XO TG EQUIP.
	15:30 - 15:30	0.00	FRAC	31	I	P		PU 5.5 HD PKR. RIH W/ 132 JTS 2 7/8 P-110 TBG. EOT @ 4204'. SWI FN. WINTERIZE RIG EQUIP & WH.
11/24/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM.
	7:00 - 8:00	1.00	FRAC	31	I	P		SICP = 350 PSI. BLOW WELL DOWN T/ FBT. CONT RIH W/ 151 JTS 2 7/8 P-110 TBG & 5.5 HD PKR. SET PKR @ 4806'.
	8:00 - 10:30	2.50	FRAC	52	E	P		FILL CSG, BLEED OFF TRAPPED GAS. REPLACE BOTH CSG VAVLES. MIRU CAMERON TEST TRUCK. PSI TEST CSG & BOP T/ 2042 PSI. HOLD FOR 15 MIN. LOST 54 PSI. GOOD TEST. BLEED OFF PSI. RDMO CAMERON TEST TRUCK.
	10:30 - 14:00	3.50	FRAC	31	I	P		UNSET HD PKR. LET EQUILIZE. POOH, STD BACK 151 JTS 2 7/8 & LD 5.5 HD PKR.
	14:00 - 17:30	3.50	FRAC	37	E	P		MIRU CUTTERS WL. ALL PERF GUN ARE 3 3/8 EXP GUN, 23 GM CHG. CUTTERS MADE 5 GUN RUNS. SHOT 129 PERF HOLES. NOTE - COULD NOT SHOOT BTM 3 GUN = 9 HOLES THAT DIDN'T GET SHOT.  PU 1st PERF GUN. RIH STACK OUT @ 9196'. COULD NOT SHOOT THE BTM 3 GUN : 9222'-23', 9225'-26', 9230'-31'. SHOT ALL OTHER PERF'S AS DESIGN. RDMO CUTTERS WL. SWIFN. WINTERIZE WELL HEAD & RIG EQUIP.
11/25/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM
	7:00 - 15:00	8.00	FRAC	31	I	P		SICP = 300 PSI. BLOW WELL DOWN T/ FBT. PUMP 20 BBLS DOWN CSG. PU 5.5 CCL W/ 5.5 STRADDLE PKR ASSEM. TOTAL LENGTH = 53.45' RIH W/ 148 JTS 2 7/8 P-110 TBG. EOT @ 4767'. SWIFWE.
11/30/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM.
	7:00 - 11:00	4.00	FRAC	31	I	P		SICP = 400 PSI. BLOW WELL DOWN T/ FBT. PUMP 20 BBLS DWN CSG. CONT RIH W/ 2 7/8 P-110 TBG T/ 5998' W/ THE TBG CCL. CORELATE TBG DEPTH W/ CBP LOG. AJUST KB T/ 4.5'. CONT RIH SET STD PKR BTM CUP @ 8544.42' - TOP CUP @ 8517.92'.

US ROCKIES REGION  
Operation Summary Report

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	11:00 - 12:30	1.50	FRAC	31	I	P		FOUND THAT WE DIDNT REMOVE J-55 TBG COLLAR F/ LAST STD IN DERRIK. XO TBG EQUIP. POOH W/ 36 JTS TBG. REPLACE TBG COLLAR. XO TBG EQUIP. RIH W/ 36 JTS. SET STRDL PKR'S. TOP CUP @ 8517.95' BTM CUP @ 8544.42'.
	12:30 - 14:00	1.50	FRAC	46	E	Z		RU FRAC CREW LINES T/ TBG & P/T T/ 8233'. SPENT 1HR 30MIN TRYING T/ GET PSI TEST. (CHANGE OUT GROUND VALVE) PSI TEST T/ 8233'. HELD FOR 15 MIN. LOST 450 PSI. BLEED OFF PSI.
	14:00 - 16:30	2.50	FRAC	52	G	P		ATTEMP T/ PSI TEST STRD PKR ASSEM. COULD NOT GET PSI TEST. WORK PIPE UP & DOWN. COULD NOT GET TEST. RD FRAC LINES.
	16:30 - 0:00	7.50	FRAC	31	I	P		POOH W/ 147 JTS TBG TO 4740', TOP PERF 4847', PUMP 30 BBLS TMAC NO PSI INC, CONT TO POOH W/ REM 174 JTS TBG & STRADDLE PKR, BTM CUPS BAD, CHANGE CUPS START RIH W/TBG.
12/1/2015	0:00 - 3:45	3.75	FRAC	31	I	P		CONT TO RIH W/ 148 JTS TBG TO 4847', PRESS TEST TO 2000 PSI, TEST GOOD, RIH W/ 121 JTS TBG SET STRADDLE PKR FOR STG #1.
	3:45 - 9:30	5.75	FRAC	36	E	P		HOOK UP FRAC LINES FRAC STG #1) (TREAT PERF F/ 8558-71) ATTM T/ FRAC STG 1, PUMPED 161 BBLS WATER & 250 GAL ACID. WELL STARTED T/ CIRC. CONT PUMP T/ CIRC ACID F/ WELL BORE. PUMP TOTAL OF 411 BBLS. SHUT DOWN PUMPING. MOVE TOOLS DOWN T/ STG #2. (STG #2 PERF'S 8580'- 92')  HOOK UP FRAC LINES STG # 2) ATTM T/ FRAC STG 1, PUMP 118 BBLS WATER, WELL STARTED CIRC. SHUT DOWN PUMPING.  MOVE TOOLS UP HOLE, LD 2 JTS TEST PKR IN BLANK PIPE F/ 8502' - 58'. HOOK UP FRAC LINES. ATTM T/ TEST TOOLS. PUMP 116 BBLS WATER. WELL STARTED CIRC. SHUT DOWN PUMPING.
	9:30 - 14:00	4.50	FRAC	31	I	P		CALL ENGINEERING ( JOSE MORENO) RD FRAC CREW. FRAC CREW WAITED ON BRINE TRUCK T/ PICKLE PUMPS. POOH LD 85 JTS 2 7/8 P-110 TBG. WAIT FOR FRAC CREW T/ MOVE TRUCKS OUT OF THE WAY F/ PIPE TRAILER.
	14:00 - 17:00	3.00	FRAC	31	I	P		CONT POOH LD 62 JTS 2 7/8 TBG. RIG PUMP T/ TBG. PUMP 35 BBLS T-MAC. STRDL PKR WOULD NOT TEST. SHUT DOWN PUMPING. CONT POOH LD 48 MORE JT OF TBG. SWI. WINTERIZE WELL HEAD & RIG EQUIP. HSM.
12/2/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM.

US ROCKIES REGION  
Operation Summary Report

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:00 - 10:00	3.00	FRAC	31	I	P		SIWP = 50 PSI. PUMP 20 BBL T-MAC. CONT POOH LD REM 100 JTS 2 7/8 P-110 & STRDL PKR ASSM. TOP & BTM CUPS ARE SHREDDED. WAIT FOR ORDERS.
12/3/2015	10:00 - 15:00	5.00	FRAC	46	A	P		HSM.
	6:45 - 7:00	0.25	FRAC	48		P		HSM.
	7:00 - 9:00	2.00	FRAC	30	F	P		SICP = 450 PSI. BLOW WELL DOWN T/ FBT. PUMP 20 BBLS T-MAC. ND 5K BOP DRL OUT STACK. NU 5K BOP. RU RIG FLOOR & TBG EQUIP. WAIT FOR ORDERS ( PLUG DEPTHS & PKR SETTING )
	9:00 - 12:30	3.50	FRAC	46	A	S		MIRU CUTTERS WL. PU 5 1/2 CIBP. RIH SET CIBP @ 8910'. POOH. PU 5 1/2 CIBP. RIH SET 2nd CIBP @ 8908'. POOH RDMO CUTTERS WL. SWIFN.
	12:30 - 17:30	5.00	FRAC	34	I	P		HSM.
12/4/2015	6:45 - 7:00	0.25	FRAC	48		P		SICP =450 PSI. BLW WELL DWN T/ FBT. PREP & TALLY 281 JTS 2 7/8 P-110 TBG. PU 5.5 - 10K HD PKR + 1 JTS 2 7/8 P-110 + 2.331 XN NIP. PU & RIH W/ 281 JTS TBG. TAG CIBP @ 8908'. LD 9 JTS TBG. PU 2 - 8' P-110 PUP JTS & BURY PUP JTS W/ 1 JT TBG, PU 7 1 1/16 TBG HNGR. LAND TBG.
	7:00 - 13:30	6.50	FRAC	31	I	P		RD TBG EQUIP & RIG FLOOR. ND BOP. UNLAND TBG & PU 7' ON TBG STRING (STRING WHIGHT 60K). SET HD PKR @ 8696'. LAND TBG HNGR W/ 40K STACKED ON HD PKR. LAND TBG W/ = ADJ KB = 10.00 7 1/16 TBG HNGR = 1.00 1 JTS 2 7/8 TBG = 31.77 2 - 8' PUP JTS = 16.00 271 JTS 2 7/8 TBG = 8600.72 2.331 XN NIP = 1.25 1 JTS 2 7/8 TBG = 31.78 5.5 HD PKR RUBBERS = 3.50 PKR SET @ 8696' NU 4 1/16 x 10K FRAC STK. RIG PUMP T/ FRAC STACK SIDE VALVE. PUMP 30 BBLS T-MAC DOWN TBG, PSI STARTED CLIMBING T/ 700#. SHUT DOWN. WAIT 5 MIN. PUMP AGAIN. TBG STAYED FULL. SHUT DOWN PUMPING. SWIFWE.  INSTALL FRAC STAND. RU FLOW LINE T/ CSG VALVE.
	13:30 - 15:30	2.00	FRAC	31	C	P		RD RIG & RACK OUT RIG EQUIP. ROAD RIG T/ NBU 321. SDFWE.
	15:30 - 17:30	2.00	FRAC	30	C	P		

US ROCKIES REGION  
Operation Summary Report

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/7/2015	5:00 -		FRAC	36	E	P		MIRU C&J FRAC. PT SURFACE LINES TO 8000#. WHP=195#, (UNDER PKR) 290# ON CASING ABOVE PKR W/ OPEN PERFS. 0# ON SURFACE CASING. 10:15 AM PUMP 2000 BBLS SLK WATER DN 2-7/8" TUBING. 15 BPM @ 6000#. SLOW RATE TO 11 BPM, DROP 30 BIO BALLS. PUMP BALLS AT 11 BPM UNTILL BALLS HIT PERFS. SEEN NO BALL ACTION. PUMP 100 GAL 15% HCL, RETURN TO 15 BPM @ 6000# SHUT DOWN DUE TO LEAK.  11AM REPLACED POP OFF. RE PRESSURE TEST TO 8000#. WHP=1950#. BRING RATE BACK TO 9.5 BPM @ 3900#. DROP ANOTHER 50 BALLS. 200# INCREASE. 18 BPM @ 6100#.  2 PM DROP ANOTHER 25 BIO BALLS CHASE WITH 100 GALLONS 15% HCL. SAW BALL ACTION OF 800# INCREASE. 18 BPM @ 6100# PSI DROPPED TO 5200# @ 20 BPM W/ 6600 BBLS GONE. DROP ANOTHER 25 BIO BALLS. 100# INCREASE. PUMP SLK WATER @ 22 BPM @ 6100 PSI.  CONT PUMPING AT 7500 BBLS GONE WITNESSED GOOD BREAK. CONT PUMPING, DROP 75 BIOBALLS WITH 9000BBLS GONE SLIGHT DIVERSION, 200# PSI INC. CONT TO PUMP FOR A TOTAL OF 11,287 BBLS SLICK WTR. ISIP 2667#, .F.G. .74 NPI 788#.
12/9/2015	7:00 - 19:00	12.00	PROD	42		P		SWI, RDMO C&J FRAC SVC. WINTERIZE W.H. SDFN SWABBING FL 1000 19 RUNS 127 BBLS.
12/10/2015	7:00 - 19:00	12.00	PROD	42	B	P		FLUID LEVEL=1860
12/11/2015	7:00 - 19:00	12.00	PROD	42	B	P		FLUID LEVEL=3400
12/12/2015	7:00 - 19:00	12.00	PROD	42	B	P		FLUID LEVEL=4300
12/22/2015	12:00 - 17:30	5.50	FRAC	30	A	P		ROAD RIG F/ 921-22G. MIRU RIG & SPOT RIG EQUIP. SICP = 400 PSI. SITP = 350 PSI. BLOW WELL DOWN T/ FBT. ND WH, NU BOP. RU RIG FLOOR & TBG EQUIP. UNLAND TBG & UNSET 5.5 HD PKR. TBG WENT ON VACCUM. LD 7 1/16 TBG HNGR. LD 1 JTS 2 7/8 P-110 TBG. SWIFN. WINTERIZE WH & RIG EQUIP.
12/23/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM
	7:00 - 15:00	8.00	FRAC	31	I	P		SICP = 450 PSI. BLOW WELL DOWN T/ FBT. POOH LD 273 JTS 2 7/8 P-110 TBG, 2.31 XN & 5.5 HD PKR. CHANGE OUT PIPE RAMS. SWIFWE.
12/28/2015	6:45 - 7:00	0.25	FRAC	48		P		HSM.

US ROCKIES REGION  
**Operation Summary Report**

Well: MORGAN STATE 4-36

Spud date: 2/7/1997

Project: UTAH-UINTAH

Site: MORGAN STATE 4-36

Rig name no.: GWS 1/1, GWS 1/1, WESTERN  
WELL SERVICES 9/9

Event: RECOMPL/RESEREVEADD

Start date: 11/2/2015

End date: 12/28/2015

Active datum: RKB @0.00usft (above Mean Sea Level)

UWI: MORGAN STATE 4-36

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:00 - 15:00	8.00	FRAC	31	I	P		SICP = 450 PSI. BLOW WELL DOWN T/ FBT. PU 1.875 XN/NC. PREP & TALLY USED YB 2 3/8 J-55 TBG. RIH W/ 254 JTS 2 3/8 J-55 YB TBG. PU 7 1/16 TBG HNGR. LAND TBG. EOT @ 7812'. RD TBG EQUIP & RIG FLOOR. ND BOP, NUWH. SWI, READY FOR SWAB UNIT. RD RIG & RACK OUT RIG EQUIP.
	15:00 - 17:00	2.00	FRAC	30	C	P		
12/29/2015	7:00 - 19:00	12.00	PROD	42		P		SWABBING FL 5100
12/30/2015	7:00 - 19:00	12.00	PROD	42	B			FLUID @ 5100', 17 RUNS, 85 BARRELS

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22265
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: MORGAN STATE 4-36
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047327290000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1912 FSL 0649 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: MORGAN STATE BUTTES  COUNTY: UINTAH  STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/12/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the Morgan State 4-36 well. Please see the attached procedure for details. Thank you.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: January 05, 2017

By: 

**Please Review Attached Conditions of Approval**

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 12/12/2016	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047327290000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Amend Plug #1: A 100' cement plug should be spotted on top of the CIBP from  $\pm 7359'$  to 7259.'**
- 3. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 4. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 5. The interval between plugs shall be filled with noncorrosive fluid of adequate density to prevent migration of formation water into or through the well bore (R649-3-24-3.5).**
- 6. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 7. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 8. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 9. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

1/5/2017

# Wellbore Diagram

r263

API Well No: 43-047-32729-00-00 Permit No: Well Name/No: MORGAN STATE 4-36

Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 36 T: 9S R: 21E Spot: NWSW

Coordinates: X: 627451 Y: 4427790

Field Name: NATURAL BUTTES

County Name: Uintah

### String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	2495	12.25			
SURF	2494	8.625	24		
HOL2	9502	7.875			
PROD	9498	5.5	20		8.031

8 5/8" x 5 1/2"

5.192

Plug #6  
 $100' = 115x$   
 $100' / (1.15)(5.192) = 175x$   
 385x total  
 to @ surface

Plug #5  
 $(315x)(1.15)(8.031) = 286'$   
 to @ 1200' ✓ OK

Plug #4  
 $115x = 101'$   
 to @ 2443' ✓ OK

Plug #3  
 $(225x)(1.15)(8.031) = 203'$   
 to @ 2920' ✓ OK

Plug #2  
 $(115x)(1.15)(8.031) = 101'$   
 to @ 4695' ✓ OK

\* Amend Plug #1  
 $100' / (1.15)(8.031) = 115x$   
 to @ 7259' ✓ OK

### Cement Information

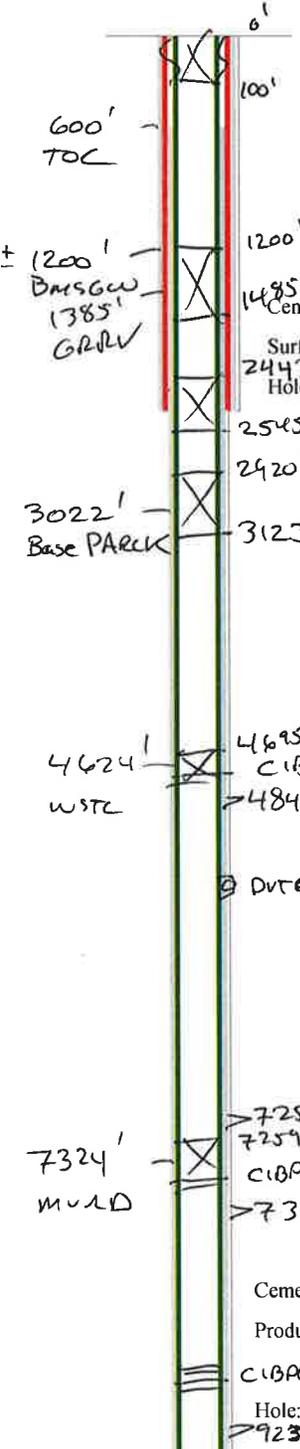
String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	9498	600	50	2370
PROD	9498	600	H	100
PROD	9498	600	PM	350
SURF	2494	0	HC	755
SURF	2494	0	T5	570

### Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7399	9236			
4847	7252			

### Formation Information

Formation	Depth
BMSW	1200
GRRV	1385
PARCK	3022
WSTC	4624
MVRD	7324



TD: 9500 TVD: PBSD:

**Morgan State 4-36**  
**1912' FSL & 649' FWL**  
**NWSW SEC. 36, T9S, R21E**  
**UINTAH UT**

**KBE:** 5042' **API NUMBER:** 4304732729  
**GLE:** 5028' **LEASE NUMBER:** ML-22265  
**TD:** 9500' **LAT/LONG:** 39.990605/-109.507163  
**PBTD:** 9410'

**CASING :** 12.25" hole  
**SURFACE** 8.625" 32# K-55 @ 2494'

**PRODUCTION** 7.875" hole  
 5.5" 20# N-80 @ 9278'  
 Est. TOC @ 600' CBL

**PERFORATIONS:** WASATCH-MESAVERDE TOP-BOTTOM 4847'-9236'

**TUBING:** 2.375" 4.7# J-55 at 8899'

Tubular/Borehole	ID	Drift inches	Collapse psi	Burst psi	Capacities		
	inches				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
5.5" 20# N-80 csg	4.778	4.653	8830	9190	0.9314	0.12451	0.02218
8.625" 32# K-55 csg	7.921	7.796	2530	3930	2.55991	0.34221	0.06095

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 5.5" csg	0.7013	0.09375	0.0167
5.5" csg. X 8.625" csg	1.3257	0.17722	0.03156
5.5" csg X 7.875 borehole	1.296	0.17325	0.03086

**GEOLOGIC INFORMATION:**

Formation	Depth to top, ft.
Top Green River	1385'
Top Mahogany	2146'
Base Parachute	3022'
Top Wasatch	4624'
Top Mesaverde	7359'

<http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737>

BMSW Elevation ~3742' MSL  
 BMSW Depth ~1300'

## Morgan State 4-36 PLUG & ABANDONMENT PROCEDURE

### GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

PERTINENT WELL HISTORY: (2) CIBP'S SET @ 8908' & 8910'. LARGE VOLUME RECOMPLETE TEST

### PROCEDURE

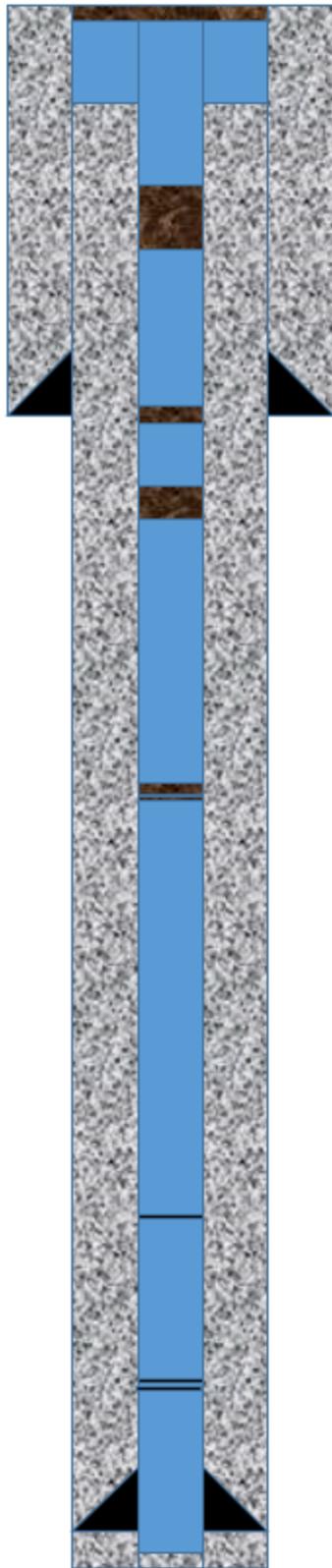
**Note:** Approx. 102 SXS Class "G" cement needed for procedure & (2) 5.5" CIBP

**Note: GYRO ON RECORD.** (IF GYRO NEEDED, A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.
3. ISOLATE MESAVERDE PERFORATIONS (> 7359'): RIH ON WIRELINE W/ 5.5" CIBP. SET @ ~7359'. RELEASE CIBP.
4. ISOLATE PERFORATIONS (9236'-4847'): RIH ON WIRELINE OR TUBING W/ 5.5" CIBP. SET @ ~4797', (50' above top perf at 4847'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 102FT BALANCED CMT PLUG F/ 4797' to 4695'(11 SXS, 12.6 FT3, 2.25 BBLs).
5. PROTECT PARACHUTE BASE (3022'): PUH WITH TUBING AND PUMP A MINIMUM OF (203FT) CMT F/ 3123' to 2920' (22 SXS, 25.19 FT3, 4.49 BBLs).
6. PROTECT CASING SHOE (2494'): PUH WITH TUBING AND PUMP A MINIMUM OF (102FT) CMT F/ 2545' to 2443' (11 SXS, 12.6 FT3, 2.25 BBLs).
7. PROTECT GREEN RIVER (1385') & BMSW (1300'): PUH WITH TUBING AND PUMP A MINIMUM OF (285FT) CMT F/ 1485' to 1200' (31 SXS, 35.50 FT3, 6.32 BBLs).
8. PROTECT SURFACE: PUH WITH TUBING AND PUMP A MINIMUM OF (102 FT) CMT F/ 102'-0' (11 SXS, 12.6 FT3, 2.25 BBLs). POOH AND RUN 1 INCH TUBING DOWN THE PRODUCTION/SURFACE CASING ANNULUS TO AS DEEP AS POSSIBLE AND CEMENT TO SURFACE (16 SXS, 18.32 FT3, 3.27 BBLs).
9. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

# Morgan State 4-36

Total SXS: 102, Total CIBP: 2



<- Plug for Surface 0' to 102' with 27SXS,102ft.

<- TOC at 600'

<- BMSW at 1300'.  
<- Plug for Green River & BMSW from 1485' to 1200' with 31SXS,285ft.  
<- GreenRiver at 1385'

<- Mahogany at 2146'

<- Plug for Surface Shoe at 2494' from 2545' to 2443' with 11SXS,102ft.

<- Plug for Parachute Base at 3022' from 3123' to 2920' with 22SXS,203ft.

<- Top Wasatch at 4624'  
<- Plug above CIBP at 4797' from 4797' to 4695' with 11SXS,102ft.  
<-CIBP Above Perfs at 4797'  
<-Top Perf at 4847'

<-CIBP for Mesaverde at 7359'

<-Existing CIBP at 8908'  
<-Existing CIBP at 8910'

<- PBD at 9410'  
<- Production Casing Shoe at 9278'  
<-TD at 9500'

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22265
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: MORGAN STATE 4-36
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1912 FSL 0649 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 36 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047327290000
PHONE NUMBER: 720 929-6456	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/11/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Morgan State 4-36 well was returned to production on  
11/11/2016.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 January 05, 2017**

<b>NAME (PLEASE PRINT)</b> Candice Barber	<b>PHONE NUMBER</b> 435 781-9749	<b>TITLE</b> HSE Representative
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/3/2017	