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#### HOLE PROGNOSIS FORM 3160-3 APPLICATION FOR PERMIT TO DRILL STRATA PRODUCTION COMPANY NASH UNIT #33 WELL 10' FSL & 175' FWL SECTION 12-23S-29E EDDY COUNTY, NEW MEXICO

In conjunction with Form 3160-3, Application for Permit to Drill, Strata Production Company submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

# 1. <u>Geologic Name of Surface Formation</u>:

#### Permian

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### 2. Estimated Tops of Geologic Markers:

Rustler	Surface	"F-2" Sand	5776'
Salado	260'	"H" Sand	6178'
Castile	1730'	"K" Sand	6640'
Bell Canyon	3110'	"L" Sand	6770'
Cherry Canyon	4110'	Bone Spring	6860'
Brushy Canyon	5190'	TD - TVD	6860'

# 3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Sumface	150'	Fresh Water
Surface		Oil or Gas
Delaware	3110' - 6860'	UII UI Uas

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 310' and circulating cement back to surface. Shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across the zone by inserting a cementing stage tool into the 5 1/2" production casing which will be run at TD.

#### 4. <u>Casing Program</u>:

<u>Hole Size</u>	Interval	OD Csg	Weight, Grade, Jt. Cond, Type
	400		
17 1/2"	0 - 340'	13 3/8"	48#, H-40, ST&C, New
11"	0-3110'	8 5/8"	32#, J-55, LT&C, New
7 7/8"	0 - TD	5 1/2"	17#, N-80, LT&C, P-110, Hydril 513, New

#### Cementing Program:

- Surface Casing: 13 3/8" casing will be set at approximately 310' and cemented with approximately 425 sacks of Premium Plus cement with 2% CaCL and additives per sack. The amount may be adjusted depending upon the fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Intermediate Casing: 8 5/8" casing will be set at approximately 3110' and cemented with approximately 800 sacks of 35/65 Poz "C" with 6% gel, 10# salt and additives per sack, and 200 sacks Class "C" with 2% CaCl and additives per sack. The amount may be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.
- Production Casing: If appropriate, 5 1/2" casing will be set at Total Depth. Strata utilizes cement in sufficient quantities to circulate cement to the surface in three (3) stages. The first stage to be cemented with approximately 600 sacks 50/50 Poz "C" with 3% salt and additives per sack. The second stage to be cemented with approximately 400 sacks of 50/50 Poz "C" with 5% salt and additives per sack. The third stage of be cemented with approximately 725 sacks 50/50 Poz "C" with 5% salt and additives per sack. D.V. tools will be placed at +/-6400' and +/-4450'.

#### **Drilling Program**

The Nash Draw #33 is designed to be a deviated/horizontal well. After setting the 85/8" intermediate casing at +/-3100', steering tools will be used to build angle at 5.72 degrees per 100' to 26.1 degrees

from vertical. This angle will be maintained to +/-6624'(TVD), angle will be built at the rate of 14.3 degrees per 100 feet until the wellbore is horizontal. At the point the wellbore is horizontal the BHL will be approximately 1950' from the surface location. The horizontal section will continue for +/-2202.3'. The BHL will be approximately 4153.3' from the surface location in a northwesterly direction with a bearing of 309.48 degrees. The MD will be +/-9950' and the TVD will be +/-6800'. The target for the BHL is 2650' FSL & 2250' FWL Section 11-T23S-R29E.

# 5. <u>Minimum Specifications for Pressure Control</u>:

The blowout preventer equipment (BOP) shown on Exhibit "A" will consist of a double ramtype (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOPs will be nippled up on the 13 3/8" surface casing and used continuously until TD is reached. All BOPs and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the hydril to 70% of rated working pressure (2100 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

## 6. <u>Types and Characteristics of the Proposed Mud System</u>:

400' 0' to 310'	Fresh water with lime and gel with paper and fiber for seepage will be used for drilling purposes.
400' 340' to 3110'	Saturated brine water purchased from commercial sources with paper and fiber for seepage will be utilized.
3110' to 5100'	3% KCL water with 20-50 PPM Nitrates, caustic for PH control and

paper for seepage with starch and XCD for Vis and WL will be utilized. Anticipated mud properties are as follows: MW 8.5, WL 15, PH 10, Vis 28, CL 70,000.

5100' to TD 3% KCL water with 20-50 PPM Nitrates, caustic for PH control and paper for seepage with starch and XCD for Vis and WL will be utilized. Anticipated mud properties are as follows: MW 8.8, WL <6, PH 10, Vis 30, CL 70,000.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

## 7. <u>Auxiliary Well Control and Monitoring Equipment</u>:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

#### 8. Testing, Logging and Coring Program:

A two (2) man Mudlogging unit will be on location from the top of the Delaware formation to TD. Mudlogging unit will be employed from approximately 3110' (Top of Delaware) to 6860' TVD (Total Depth).

If indicated, DLL-MSFL, CNL-Density, Gamma Ray logs and Caliper logs will be run at TD. The Dual Laterolog will be run from +/-6400' TVD back to the intermediate casing and the Compensated Neutron/Density Log will be run from +/-6400' TVD back to surface. A Gamma Ray Log will be run in the horizontal section of the well. In some cases, Strata may elect to run rotary sidewall cores from selected intervals from approximately 3110' to 6860' dependent upon logging results.

# 9. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The anticipated bottomhole

pressure is 2600# PSI.

Loss of circulation is possible in the Delaware section of the hole, however, no major loss circulation zones have been reported in offsetting wells.

Strata has drilled and completed eighteen (19) wells in the immediate area. To date, Hydrogen Sulfide has not been encountered. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide alarm on the drilling rig would be activated. All personnel have had Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blow out preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

## 10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is October 15, 2002. Once commenced, the drilling operation should be completed in approximately 25 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities.

#### SURFACE USE PLAN FORM 3160-3 APPLICATION FOR PERMIT TO DRILL STRATA PRODUCTION COMPANY NASH UNIT #33 WELL 10' FSL & 175' FWL SECTION 12-23S-29E EDDY COUNTY, NEW MEXICO

Submitted with Form 3160-3, Application For Permit to Drill covering the above captioned well. The purpose of the plan is to describe the location, the proposed construction activities, the operations, the surface disturbance involved, and the rehabilitation of the surface after completion of said well so that an appraisal can be made of the environment affected by this well.

#### 1. <u>Existing Roads</u>:

- A. The Well Location and Acreage Dedication Plat for the proposed well has been staked by Dan R. Reddy, Engineer, Carlsbad, New Mexico and is attached.
- B. All roads to the location are shown in Exhibit "B". The existing roads are illustrated in red and are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be done where necessary as determined during the on-site inspection.
- C. Directions to location: From Loving, New Mexico, the well is located approximately 9 miles to the east off State Highway 128.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as operations continue on the lease.

#### 2. Proposed Access Road:

A new access road of approximately 250' will be required as shown on Exhibit "B" and is illustrated in yellow. The road will be constructed from the existing north south road as follows:

- A. The average grade will be less than 5%.
- B. No turnouts will be necessary.
- C. No culverts, cattleguards, gates, low-water crossings or fence cuts are necessary.
- D. Surfacing material will consist of native caliche. If required, road across pad will be surfaced with a minimum of 6" of caliche. Caliche will be obtained from the nearest BLM approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

#### 3. Location of Existing Wells:

All existing wells within a one mile radius of proposed well are shown on Exhibit "C". A list of the wells is shown on the Attachment to Exhibit "C".

4. Location of Existing and/or Proposed Facilities:

In the event the proposed well proves to be productive, Strata Production Company will furnish maps or plats showing On Well pad facilities and Off Well pad facilities (if necessary) by Sundry Notice before beginning the construction of the facilities.

5. <u>Location and Type of Water Supply</u>:

The well will be drilled with a combination of brine and fresh water mud systems as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing and proposed access roads as shown on Exhibit "B". If a commercial fresh water source is nearby, fasline may be laid along existing road ROWs and fresh water pumped to the well. No water well will be drilled on the location.

#### 6. <u>Source of Construction Materials</u>:

All caliche required for construction of the drill pad and the proposed new access road (approximately 5000 cubic yards) will be obtained from a BLM approved caliche pit. All roads and pads will be constructed of 6" rolled and compacted caliche.

#### 7. <u>Methods of Handling Water Disposal</u>:

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. It will be fenced on the fourth side immediately following rig removal. The reserve pit will be plastic lined (5-7 mil thickness) to minimize loss of drilling fluids and saturation of the ground with brine water. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
- C. Water produced from the well during completion may be disposed into the reserve pit or a steel tank (depending upon rates). After the well is permanently placed on production, produced water will be collected in tanks (fiberglass or steel) until transported via flowline or trucked to an approved disposal system or a separate disposal application will be submitted to BLM for approval. Produced oil will be collected in steel tanks until sold.
- D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Compliance with current laws and regulations pertaining to the disposal of human waste will be observed.

- E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by the operation.
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until dried. When the reserve pit is dry enough to breakout and fill, and as weather permits, the unused portion of the wellsite will be leveled and reseeded as per BLM specifications. Only that part of the pad required for production facilities will remain in use. In the event of a dry hole, only a dry hole marker will remain.

#### 8. <u>Ancillary Facilities</u>:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well. No permanent living facilities are planned, however, a temporary foreman/toolpusher's trailer will be on location during drilling operations.

#### 9. <u>Well Site Layout</u>:

- A. The drill pad layout with elevations, as staked by Dan R. Reddy, Engineer, is shown on Exhibit "D". Dimensions of the pad, pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is fairly level, no major cuts will be required.
- B. The planned orientation of the rig and associated drilling equipment, reserve pit, trash pit, pipe racks, turn-around and parking areas, and access road are shown on Exhibit "D".

C. The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).

#### 10. Plan for Restoration of the Surface:

A. Upon completion of the proposed operations, should the well be abandoned, the pit area, after allowed to dry, will be broken out and leveled. The original top soil will be returned to the entire location, and leveled and contoured to the original topography as nearly as possible.

All trash, garbage and pit lining will be removed in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled within 120 days after abandonment.

- B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fenced on the rig (fourth) side to prevent livestock or wildlife from being entrapped. The fencing will remain in place until the pit area is cleaned and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, should the well be productive, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from an area of the original drillsite not needed for production operations or facilities will be removed and used for construction of thicker pads or firewalls for the tank battery installation. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drillsite will be used to recontour the pit area and unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

#### 11. Surface Ownership:

The wellsite and lease are located entirely on Federal surface.

#### 12. <u>Other Information</u>:

- A. The topography around the wellsite is rolling terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area includes those typical of semi-arid desert land.
- B. The soils are clayey sand over caliche base.
- C. There is no live water in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.
- F. An archaeological study has been conducted for the location and new access road. The report has been submitted separately.
- 13. Lessee's and Operator's Representative:

MARK MURPHY P. O. BOX 1030 ROSWELL, NEW MEXICO 88202-1030 PHONE NUMBER: (505) 622-1127-OFFICE EXT. 12

14. <u>Certification</u>:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Strata Production Company and its contractors and sub-contractors in conformity with the plan, and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

STRATA PRODUCTION COMPANY

My Byritt Kelly Britt

PRODUCTION RECORDS MANAGER

DATE: <u>August 21, 2002</u>

#### EXHIBIT "A"

#### EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

- 1. Bell nipple
- 2. Hydril bag type preventer
- 3. Ram type pressure operated blowout preventer with blind rams.
- 4. Flanged spool with one 3"and one 2"(minimum) outlet.
- 5. 2"(minimum) flanged plug or gate valve.
- 6. 2"x 2"x 2"(minimum) flanged.
- 7. 3"gate valve.
- 8. Ram type pressure operated blowout preventer with pipe rams.
- 9. Flanged type casing head with one side outlet.
- 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
- 11. 3" flanged spacer spool.
- 12. 3"x 2"x 2"x 2" flanged cross.
- 13. 2" flanged plug or gate valve.
- 14. 2" flanged adjustable choke.
- 15. 2" threaded flange.
- 16. 2" XXH nipple.
- 17. 2" forged steel 90`Ell.
- 18. Cameron (or equal) threaded pressure gauge.
- 19. Threaded flange.
- 20. 2" flanged tee.
- 21. 2" flanged plug or gate valve.
- 22. 2 1/2" pipe, 300' to pit, anchored.
- 23. 2 1/2" SE valve.
- 24. 2 1/2" line to steel pit or separator.

#### NOTES:

- Items 3,4 and 8 may be replaced with double ram type preventer with side outlets <u>between</u> the rams.
- 2). The two valves next tho the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.



the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least \_\_\_\_\_percent of the original. (3) When requested, an additional source of power, remate and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing monifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment. A pressive reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventer.

as straight as possible and without sharp bends. Easy and safe access is to be maintained to the chake manifold. If deemed necessary, walkways and stairways shall be erected in and around the chake manifold. All valves are to be selected for operation in the presence of ail, gas, and drilling fluids. The chake flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped The choke monifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, reliaf line, and choke lines shall be constructed with handles.

\* To include derrick floor mounted controls.



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## Attachment to Exhibit "C"

# STATUS OF WELLS WITHIN ONE MILE RADIUS

Nash Unit #33 Section 12-23S-29E Eddy County, New Mexico AUGUST 2002

#### Section 12-23S-29E Murchison Oil & Gas Strata Production Co. Murchison Oil & Gas

#### Section 13-23S-29E

Strata Production Co. Strata Production Co. Strata Production Co. Murchison Oil & Gas Strata Production Co. Strata Production Co.

#### Section 14-23S-29E

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#### <u>Well #</u> Nash Unit #1

Nash Unit #4 Nash Unit #4 Nash Unit #5 Nash Unit #8 Nash Unit #10 Nash Unit #10 Nash Unit #14 Nash Unit #15 Nash Unit #21 Nash Unit #23 Nash Unit #23 Nash Unit #30 Nash Unit #38 Nash Unit #31

#### <u>Well #</u> Nash Unit #24 Nash Unit #25 Nash Unit #31

Footage 1980'FSL&1980'FWL 498'FSL&2000'FWL 918'FSL&2153'FEL 2315'FSL&1746'FWL 330'FSL& 990'FEL 2202'FSL&2201'FEL 1460'FSL&1585'FWL 1628'FSL&2150'FWL

Footage 1980'FNL& 660'FEL 990'FNL& 330'FEL 2310'FSL& 330'FEL 990'FSL& 990'FEL 860'FNL&2210'FEL 1750'FNL&1800'FEL 160'FNL& 500'FEL 10'FNL& 475'FWL 1650'FNL&1650'FEL 1605'FNL& 660'FWL 1980'FSL&2310'FEL 940'FSL& 760'FEL 330'FSL&2450'FWL 2410'FSL& 510'FWL

Footage 1650'FNL & 990'FEL 1650'FSL & 500'FEL 2425'FNL &1650'FEL <u>Status/Formation</u> Atoka Delaware Delaware To be drilled Delaware Delaware Atoka

#### Status/Formation Delaware SWD Delaware Abandon loc Delaware Delaware Delaware Delaware To be drilled Delaware To be drilled Delaware To be drilled Delaware Location

<u>Status/Formation</u> Delaware Delaware Abandoned loc



# NASH DRAW #33 S.L. 10' FNL & 75' FWL SECTION 13 3.H.L. 2250' FWL & 2650' FSL SECTION 11 T23S-R29E EDDY COUNTY, N.M.





POST OFFICE DRAWER 1030 ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88203

August 22, 2002

CERTIFIED MAIL RETURN RECEIPT REQUESTED #7002 0460 0002 5447 9923

IMC Kalium Carlsbad Potash Company ATTN: Mr. Peter N. Livingstone, Chief Mine Engineer P. O. Box 71 Carlsbad, New Mexico 88221-0071

Re: Application to Drill in Potash Area Nash Unit #33 Section 12-23S-29E Eddy County, New Mexico

Dear Mr. Livingstone:

In accordance with the State of New Mexico Oil Conservation Division Rule R-111-PC (2)(3), enclosed herewith please find the following for your review and further action:

- 1. Form 3160-3 Application For Permit To Drill.
- 2. Form C-102 Well Location and Acreage Dedication Plat.

State of New Mexico Public Land records reflect IMC Kalium Carlsbad Potash Company as a potash lessee in the area of the captioned lands. Strata Production Company, a New Mexico corporation, hereby advises you of its intention to drill a well to 7200' at a location 10' FSL &175' FWL of Section 12, Township 23 South, Range 29 East, Eddy County, New Mexico.

If you are in agreement with Strata that drilling at the proposed location will not interfere with potash operations, please sign and return one copy of this letter within 10 days of receipt of said letter.

Should you have any questions or require additional information, please advise.

Sincerely,

ugnBrit

Kelly M. Britt Production Records

AGREED TO AND ACCEPTED THIS \_\_\_\_\_ DAY OF AUGUST, 2002.

cc: Bureau of Land Management, Carlsbad, NM