

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE
(Other duplicate
reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

01SF

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK
DRILL **DEEPEN**

B. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE BORE MULTIPLE BORE

2. NAME OF OPERATOR
KCS Medallion Resources, Inc. *161859*

3. ADDRESS AND TELEPHONE NO.
 7130 South Lewis Avenue, Suite 700, Tulsa, OK 74136-5489. Phone (918)499-1325

4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.)
 At surface: *1650 ft FNI. & 2310 ft FWI. of Section 2*
 At proposed prod. zone: *2100 BWH Same Unit F*

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
 467 ft

16. NO. OF ACRES IN LEASE
 200 Acres more or less

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.
 1342 ft

19. PROPOSED DEPTH
 8,500 ft

20. ROTARY OR CABLE TOOLS
 Rotary Tools

21. ELEVATIONS (Show whether DP, ET, GR, etc.)
 3556 ft, Ground Level

22. APPROX. DATE WORK WILL START*
 01 October 2001

5. LEASE DESIGNATION AND SERIAL NO.
 USA LC 028990 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NA

7. UNIT AGREEMENT NAME
 pending *29150*

8. FARM OR LEASE NAME, WELL NO.
 Shugart West "24" Federal "F" No. 6

9. AP WELL NO.
30-015-32139

10. FIELD AND POOL, OR WELDCAT
 Shugart

11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA
 Sec. 24, T18S, R30E N.M.P.M.

12. COUNTY OR PARISH
 Eddy

13. STATE
 New Mexico

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Sch 10, 20"	52.73 lbs.	40 to 80 ft	Ready-Mix to surface
17 1/2"	H40, 13 3/8"	48 lbs.	760 ft	520 sacks w/additives
11"	J55, 8 5/8"	32 lbs.	2,800 ft	680 sacks w/additives
7 7/8"	J55, 5 1/2"	15.5 & 17 lbs.	8,500 ft	480 sacks w/additives

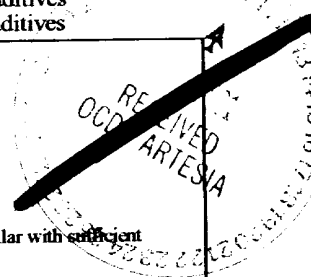
Procedure:

1. Drill 26 in hole and set 20 in conductor w/rat hole digger if necessary. Cement to surface
2. Drill 17 1/2 in hole to 760 ft and set 13 3/8 in casing. Cement to surface.
3. Drill 11 in hole to 2800 ft and set 8 5/8 in casing. Cement to surface.
4. Install Hydrill and BOP Stack. Test to 2750 psig.
5. Drill cement in casing to within 20 ft of shoe. Test casing to 1500 psig.
6. Drill 7 7/8 in hole through the Bone Springs formation to TD. DST as necessary.
7. Run electric logs. Shoot sidewall cores if desired.
8. If warranted, run and cement 5 1/2 in casing w/stage collar at 4300 ft. Cement to 500 ft above top zone of interest and through stage collar with sufficient slurry to fill 500 ft into the 8 5/8 " surface casing.
9. Test 5 1/2 in casing to 3000 psig prior to perforationg.

Exhibits Attached:

- A. Location and elevation plat.
- B. Location Verification Map.
- C. Vicinity map.
- D. Surface Use Plan.
- E. Drilling Plan.
- F. Blow Out Preventer Diagram
- G. Typical Wellsite Layout
- H. Map of Existing Wells In Area
- I. H2S Drilling operations Plan

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**



24. SIGNED *Larry Wheat* RECEIVED OCT 1 19 1995 ARTESIA Drilling Superintendent DATE *8-16-01*

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval 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.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *W. Porter F. Hoff* TITLE *Acting* STATE DIRECTOR DATE *DEC 11 2001*

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

APPROVAL FOR 1 YEAR

BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

2001 AUG 20 AM 9:54

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED

BLM Form No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

- Oil Well
- Gas Well
- Other

2. Name of Operator

KCS Medallion Resources, Inc.

3. Address and Telephone No.

7130 S. Lewis Ave., Suite 700, Tulsa, Ok 74139-5489, 918-488-8283

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2100 ft FNL & 2310 ft FWL of Sec. 24, 18S, R30E

5. Lease Designation and Serial No.

USA LC 028990 (a)

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Shugart West 24 Federal F # 6

9. API Well No.

10. Field and Pool, or Exploratory Area

Shugart

11. County or Parish, State

Eddy Co., NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

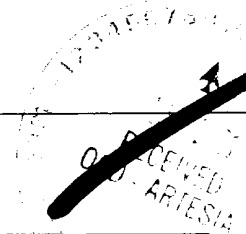
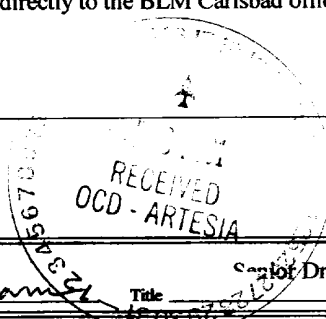
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

At the request of Mr. John Sherman, Wildlife Biologist, BLM Carlsbad, NM, the location of this well has been moved 450 ft South of the original location of 1650 ft FNL & 2310 ft FWL as requested in the APD submitted on 16 August 2001. The purpose of this move is to reduce the environmental impact of the drilling operations upon the dunal habitat of the local wildlife. Also, in order to further reduce the encroachment of the operations into the dunal habitat, he has requested that no more than 100 feet of the pad west of the well location stake be utilized for the drilling or production operations. In order to honor his request the rig has been reoriented on the well site layout with the reserve pit on the east.

Sent with this Sundry Notice are one original and 5 copies of the revised Form C-102 as well as 6 copies each of the Location Verification Map, Vicinity Map, and the revised Well Site Layout. The additional archaeological survey will be performed by Geo Marine within the next few days and their report will be submitted directly to the BLM Carlsbad office.



14. I hereby certify that the foregoing is true and correct

Signed

John Williams

Title

Senior Drilling Engineer

Date

17 October 2001

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See instruction on Reverse Side

ST. LOUIS
MEX. AIRLINE

2001 OCT 22 AM 10:07

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

Revised February 10, 1984

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-8718

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

P.O. Box 2088

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III
1006 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name SHUGART WEST "24" FEDERAL "F"	Well Number 6
OCRID No.	Operator Name KCS MEDALLION RESOURCES, INC.	Elevation 3552'

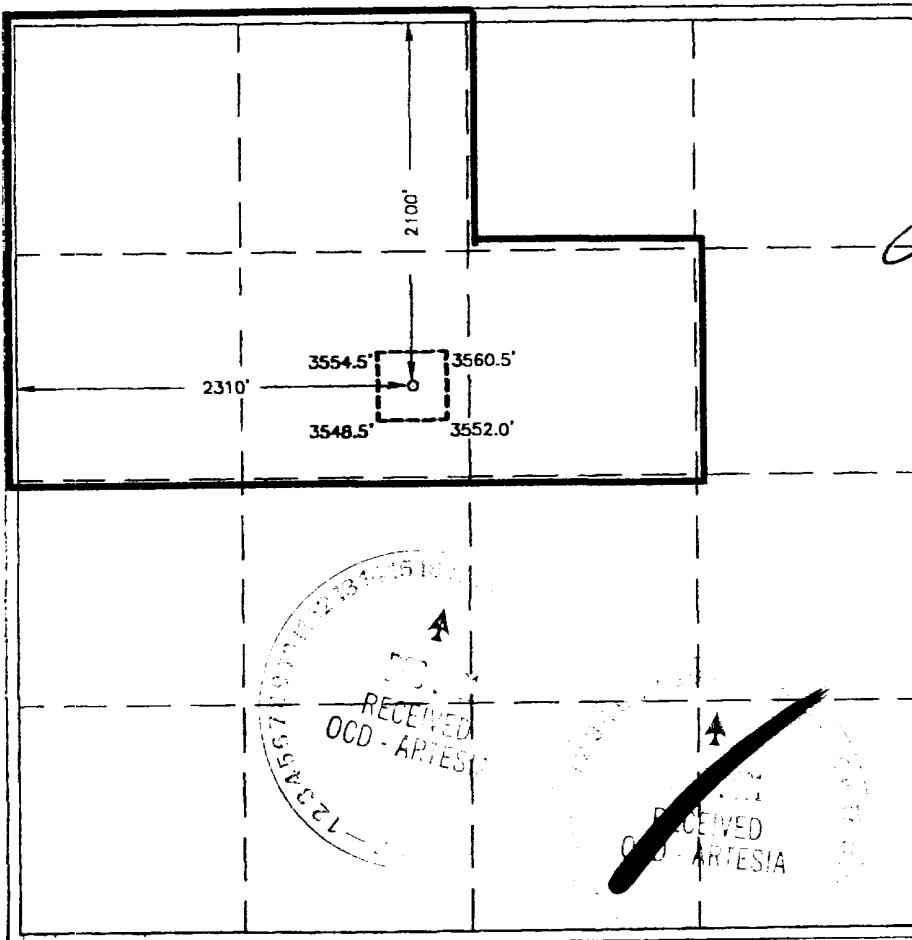
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	24	18S	30 E		2100	NORTH	2310	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
0									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Larry Wheat
Signature
Larry Wheat
Printed Name
Dist. Supt
Title
10-16-01
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 09, 2001

Date Surveyed _____ AWB

Signature *Ronald E. Gibson*
Professional Surveyor
NEW MEXICO
10/10/01
01.11.1108

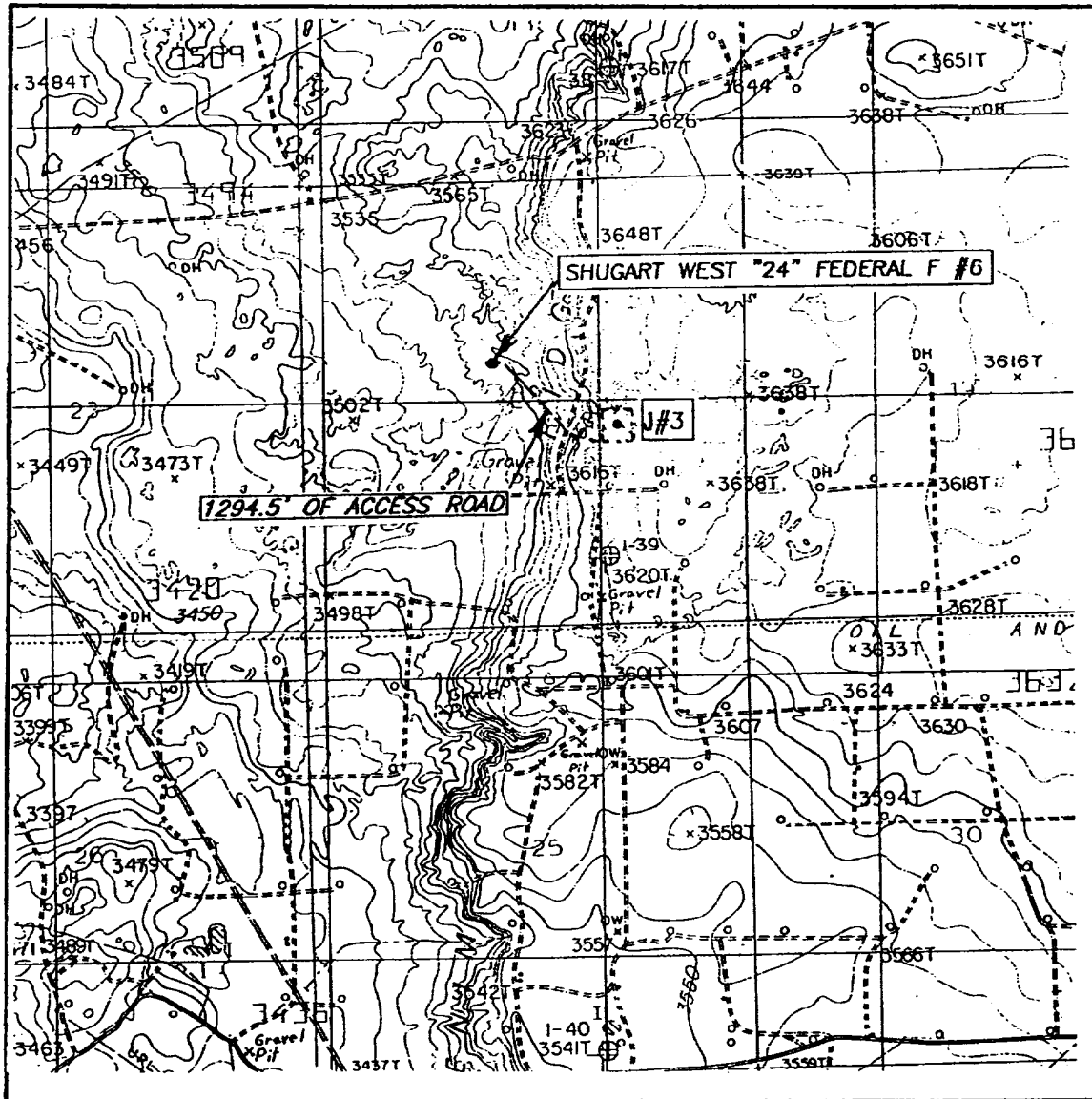
Certificate No. RONALD E. GIBSON 3239
CAST GIBSON 12841

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12345678901234567890

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OCD - ARTESIA

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2001 OCT 22 AM 10:07
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'
HACKBERRY LAKE, N.M.

SEC. 24 TWP. 18-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2100' FNL & 2310' FWL

ELEVATION 3552'

OPERATOR KCS MEDALLION RESOURCES

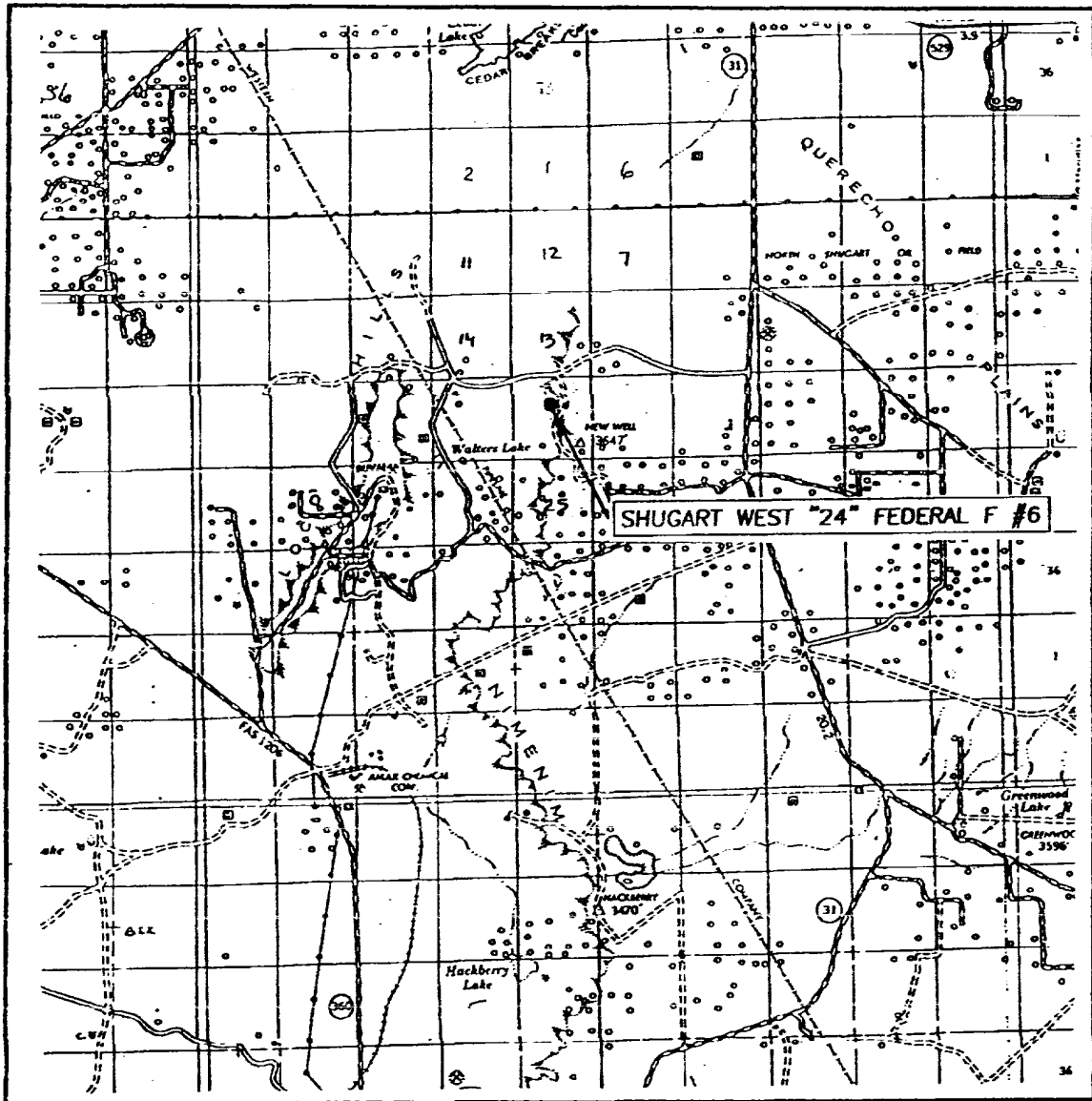
LEASE SHUGART WEST "24" FEDERAL F

U.S.G.S. TOPOGRAPHIC MAP

HACKBERRY LAKE, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 24 TWP. 18-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2100' FNL & 2310' FWL

ELEVATION 3552'

OPERATOR KCS MEDALLION RESOURCES

LEASE SHUGART WEST "24" FEDERAL F

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

250'0"

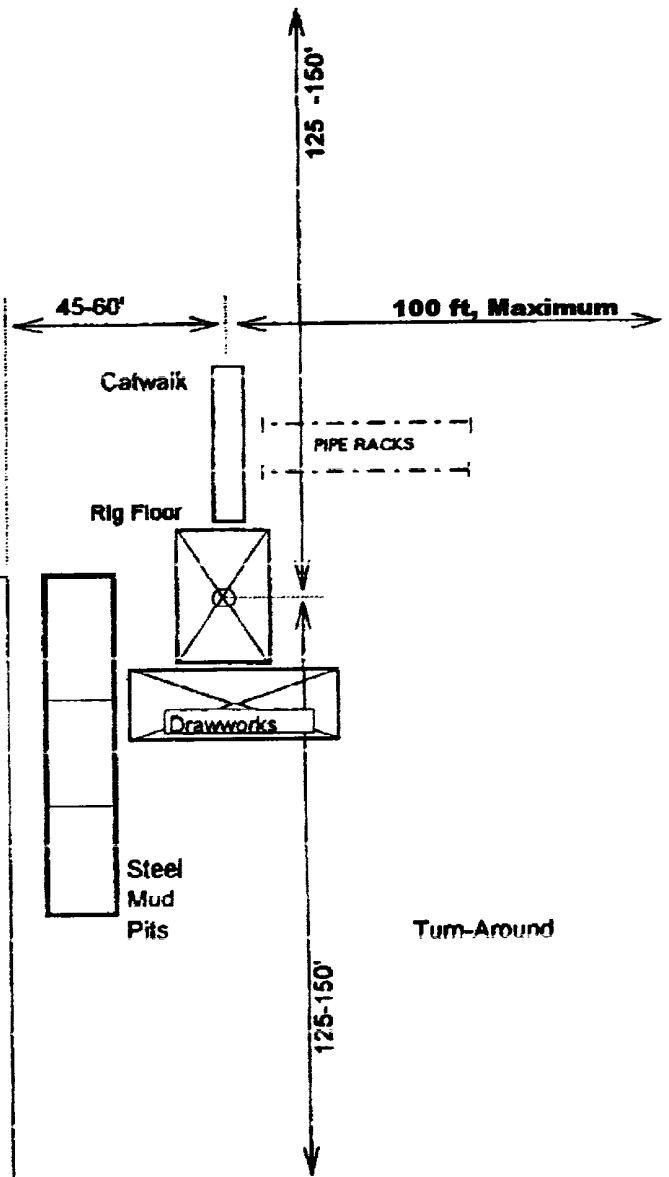
Entry area
from lease road

KCS Medallion Resources, Inc.

Wellsite Layout

Shugart West 24 Federal F #6
2100' FNL & 2310' FWL
Lot # F, Sec. 24, T18W, R30E
Eddy County, NM

Trailer Houses



Reserve Pit
150' X 150'

Catwalk

PIPE RACKS

Rig Floor

Drawworks

Steel
Mud
Pits

Turn-Around

DIMENSIONS DEPEND ON SPECIFIC RIG

NOT TO SCALE

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2001 OCT 22 AM 10:07
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

Exhibit "D"
Multi-Point Surface Use and Operations Plan
KCS Medallion Resources, Inc.
7130 South Lewis Avenue, Suite 700
Tulsa, OK 74136

Shugart West "24" Federal "F" No. 6
1650 ft FNL & 2310 ft FWL
Sec. 24, T18S, R30E NMPM
Eddy County, New Mexico

Lease No.: USA LC 028990 (a)
Lease Description: NW/4 & SW/4 of NE/4
& more in other sections

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of operations so that a complete appraisal can be made of the environmental effects associated with the operation.

1 Existing Roads

- A. Exhibit "B", the Location Verification Map, is a reproduction of portion of a topographic map showing the location of the proposed well as staked with reference to the local topography and to the existing roads, wells, and other culture in the area. Exhibit "C" is a map of smaller scale showing the proposed location with reference to the major roads in the vicinity. The proposed well is located approximately 7 miles SE of Loco Hills and about 2 miles north west of the intersection of CR 222 and Grubbs Road, CP 250..
- B. Directions: From Loco Hills go approximately 6 miles east on US 82 to the intersection of US 82 and CR222, then go south on CR222 7 miles to Grubbs Road, CP250. Turn west on CP250 and go 1.4 miles to a lease road on the north. Go north on lease road about 0.8 miles, jog left about 0.1 mile, then turn right and continue back north for approximately 0.5 miles. Turn west and follow the lease road about 0.3 of a mile to the KCS Medallion Shugart West 19 No. 7 well location and on to the north west about 750 ft to the KCS Medallion Shugart West 24 Federal No. 1 location. Proceed directly west to the Shugart West 24 Federal J No. 3 location and follow the flagged right of way about 0.3+ miles in a north westerly direction to the proposed location.

2. Planned Access Road

- A. Length and Width: The new road will be extended from the Shugart West 24 Federal J No. 3 well location and will be about 1744 ft long and about 20 ft wide, including the shoulders. The road centerline has been flagged.
- B. Surfacing Material: The new road will be constructed of material-in-place. If necessary the road will be surfaced with caliche.
- C. Maximum Grade: 6 to 8%
- D. Turnouts: Two may be constructed at about 600 ft intervals.

- E. **Drainage Design:** The road will be constructed with about 4 in of crown at the centerline. Water turnouts will be constructed at 300 ft intervals.
- F. **Culverts:** None appear to be necessary.
- G. **Cuts and Fills:** Any cut or fill on the location would be less than 5 ft.
- H. **Gates and Cattle guards:** One cattle guard will be necessary.
- I. **Right of Way:** Right of Way across existing roads has been previously acquired from The Bureau of Land Management across Section 30, T18S, R31E, Eddy Co. to provide access for the drilling of the W. Shugart 19 Federal No. 1, located in the SW/4 of Sec. 19, T18S, R31E. It is expected that this same ROW will be utilized for this well.

3. Location of Existing Wells

Existing wells are shown on Exhibit 'H'.

4. Location of Existing and/or Proposed Facilities

If the well is productive, production, storage, and measurement facilities will be constructed on the wellpad.

5. Location and Type of Water Supply

Plans are to purchase water for the drilling operations from a commercial supplier.

6. Source of Construction Materials

Plans call for use of material-in-place for construction. If caliche is necessary for road or pad surfacing, it would be obtained from the reserve pit. No caliche or other material will be taken from Public Land without prior approval.

7. Methods of Handling Waste Disposal

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during testing will be stored in tanks and trucked to an approved disposal facility. Oil produced during testing will be stored in test tanks until sold.
- D. The operator will comply with current laws and regulations pertaining to the disposal of human waste.
- E. Trash, waste paper, garbage, and junk will be stored in a trash trailer and will be contained to prevent scattering by the wind.

- F. All trash and debris will be removed from the wellsite within 30 days after completing drilling, completion, and construction operations and disposal will be in an approved trash disposal facility.

8. Ancillary Facilities

None are necessary.

9. Well Site Layout

- A. The well location and the 400 ft X 400 ft surrounding area have been surveyed and flagged.
- B. Dimensions and relative location of the drill pad, pit, and equipment are shown on Exhibits 'A', 'B', and 'G'.
- C. Top soil for the restoration will be stock-piled on the north and east sides of the location.

10. Plans for Restoration of the Surface

- A. After completion of drilling, completion, and construction operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk so as to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is not productive, the disturbed area will be restored to Federal Agency requirements and will be accomplished as expeditiously as possible.

11. Surface Ownership

- A. All the surface in Section 24 is Public Land.

12. Other Information

- A. Topography: The area can be described as being situated on the on the west margin of the Querecho Plains just west of the east edge of the Nimenim Ridge escarpment. The area is marked by an undulating surface with aeolian deposits between 1 to 5 metres high and interdunal deflation basins."
- B. Soil: Described as being Kermit-Berino association which are sandy, deep soils from wind-worked mixed sand deposits.
- C. Flora and Fauna: The vegetation consists primarily of Grassland Formation, Scrub-grass, Disclimax Community with ground visibility averaging about 75%. No wildlife was observed but probably consists primarily of small reptiles and rodents.
- D. Pond or Streams: There are no pond or streams within one mile.
- E. Residences and Other Structures: There are no known structures or residences within one half mile of the location.

F. Archaeological, Historical, and other Cultural Sites: An archaeological survey of the well pad and road has been made by Geo-Marine Inc. of El Paso, TX. A copy of their report will be filed with the Bureau of Land Management in Carlsbad as soon as it is available.

G. Land Use: No livestock were seen and there was no evidence of grazing. The land appears to be essentially idle.

H. Operator's Representative:

Larry Wheat, Drilling Superintendent
7130 S. Lewis Ave., Suite 700
Tulsa, OK 74136-5489

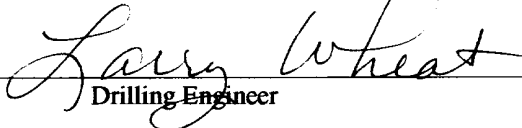
Office Phone: (918) 491 4114
Cell Phone: (918) 855 6222
Pager: (918) 643 6430
Fax: (918) 488 8750

Certification:

I certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by KCS Medallion Resources, Inc. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date 8-16-01

Signed
Title:


Drilling Engineer

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell Resource Area

2909 West 2nd Street

Roswell, New Mexico 88201-2019

Statement Accepting Responsibility for Operations

Operator name: KCS Medallion Resources, Inc.
Street or box: 7130 South Lewis Avenue, Suite 700
City, State: Tulsa, OK
Zip code: 74136-5489

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: USA LC 028990(a)

Legal Description of land: S/2 of S/2 of Sec. 13,
SE/4 of SE/4 of Sec. 14,
NE/4 & E/2 of NW/4 of Sec. 23, and
NW/4 & SW/4 of NE/4 of Sec. 24
all in T18S, R30E N.M.P.M.
Eddy County, New Mexico

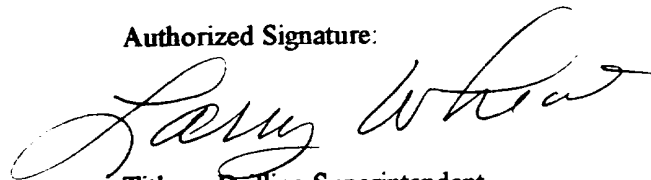
Formation(s) (if applicable):

Bond Coverage: (State if individually bonded or another's bond)

New Mexico Statewide Bond. Nations Bank Letter of Credit No. 152893

BLM Bond File No.: NM2438

Authorized Signature:



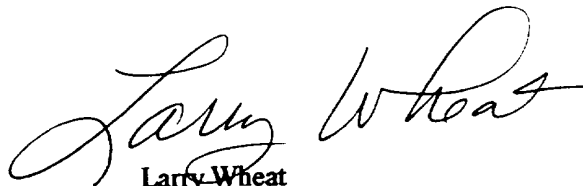
Title: Drilling Superintendent

Date: 8-16-01

Self Certification
of
Authority to Conduct Operations

I, Larry Wheat, being the representative for KCS Medallion Resources, Inc. (Operator) certify that I have the necessary consent of the proper lease interest owners to conduct lease operations associated with this well/lease, the Shugart West "24" Federal "F" No.6, located 1650 ft FNL and 23100 ft FWL of Sec. 24, T18S, R30E, Eddy County, New Mexico..

Bond coverage for lease activities is provided by KCS Medallion Resources, Inc.



Larry Wheat
Drilling Superintendent
KCS Medallion Resources, Inc.
Date 8-16-01

Exhibit "E"
Eight Point Compliance Program
KCS Medallion Resources, Inc.
7130 South Lewis Avenue, Suit 700
Tulsa, OK 74139-5489

Drilling Plan

Shugart West "24" Federal "F" No. 6
1650 ft FNL & 2310 ft FWL
Sec. 24, T18S, R30E N.M.P.M.
Eddy Co. New Mexico

Lease No.: USA LC 028990 (a)
Lease Description: NW/4 & SW/4 of NE/4
& more in other sections

1. Estimated Tops of Geologic Markers

<u>Horizon</u>	<u>Depth ft</u>	<u>Sea Level Datum</u>
Surface	0	+3,556
Anhydrite	446	+3,110
B/Salt	1,706	+1,850
Yates	1,866	+1,690
7-Rivers	2,096	+1,460
Queen	3,056	+500
Penrose	3,326	+230
Grayburg	3,536	+20
San Andres	4,266	-710
Delaware	4,706	-1,150
Bone Springs	5,736	-2,180
1 st Bone Springs sd.	7,576	-4,020
2 nd Bone Springs dolo.	8,106	-4,550
Total Depth	8,500	-4,944

2. Estimated Depths of Water, Oil or Minerals

A. Fresh Water

It is possible that fresh water zones could be encountered at depths up to 200 to 300 ft. Any zones encountered will be protected by the 13 5/8" casing set at 760 ft and by the 8 5/8" casing set at 2800 ft. Both strings of casing will be cemented to the surface.

B. Oil and Gas

Oil in the Bone Springs Sand is the primary objective of this well. It is also possible that shows of gas or oil may be encountered in other zones. Potentially productive horizons, as indicated by samples and/or electric logs will be protected by 5 1/2" casing with cement up to a minimum of 500 ft above the upper-most zone of interest.

2. The Operators Minimum Specifications for Pressure Control

- A. Exhibit F is a schematic diagram of the blowout prevention equipment. The annular BOP and rams will be hydraulically tested to 2750 psig (70% of the internal yield strength of the 8 5/8" 32 lb/ft. J55 casing) after nipping up and after any use under pressure. Annular and pipe rams will be operationally tested each 24 hr period and blind rams will be tested each time the drill pipe is out of the hole. Accessories to the BOP will include a floor safety valve and a choke manifold with a pressure rating equivalent to the BOP stack
- B. Testing Procedures:
1. All casing below the surface string will be tested to .22 psig/ft or to 1500 psig, whichever is greater, but not to exceed 70% of the internal yield strength of the casing.
 2. All ram type preventers will be tested to the rated working pressure of the stack or to 70% of the minimum internal yield of the casing, whichever is less.
 3. Tests will be performed at the time of installation, and prior to drilling out of the casing shoe, and at least every 30 days.
 4. The intermediate casing string will be tested prior to drillout by drilling cement to within 15-20 ft of the shoe, raising the drillstring off bottom, closing the pipe rams, and raising the casing pressure to the desired pressure.
 5. The production string will be tested prior to drillout or perforating by pressuring to the desired pressure.
- D. No over pressured formations are expected to be encountered, however drilling fluid levels will be visually monitored while circulating the reserve pit. A flow rate monitor will be installed in the mud flow line and fluid level indicators will be installed on the steel circulating tanks.

4. Proposed Casing and Cementing Programs

- A. All casing below the conductor will either be new and manufactured to API specifications or used and reconditioned to Grade "A" specifications. Minimum casing specifications are shown below.

String	Size	Wt/ft	Grade	Thread Type	Setting Depth	Condition
1.	20"	52.73#	Sch 10	NA	40' to 80'	Used. Grd. A
2.	13 3/8"	48#	H40	8 rnd, ST & C	760'	New or Used, Grd. A
3.	8 5/8"	32#	J55	8 rnd, ST & C	2,800'	New or Used, Grd. A
4.	5 1/2"	17#	J55	8 rnd, LT & C	0' to 900'	New or Used, Grd. A
	5 1/2"	15.5#	J55	8 rnd, LT & C	900' to 6200'	New or Used, Grd. A
	5 1/2"	17#	J55	8 rnd, LT & C	6200' to 8500'	New or Used, Grd. A

B. Cementing

1. The hole for the conductor casing will be cut with a rat hole digger and sufficient hole will be cut to drill into consolidated sediments. Since the casing comes in 40 ft lengths, either 40ft or 80 ft of hole will be drilled depending on the consolidation of the underlying sediments. After drilling is completed

casing will be set on bottom and cemented to the surface with ready-mix cement.

2. The 13 3/8" surface casing will be set at approximately 760 ft in 17 1/2" hole using a guide shoe, insert float, and at least three centralizers. It will be cemented to the surface with 100% excess slurry consisting of a lead slurry of 320 sacks of Class 'H' cement + 3% D79 + 0.25 pps of D29 mixed with 14.14 gal/sk of water for a weight of 12.0 ppg and a yield of 2.39 cf/sack, followed by a tail slurry of 200 sacks of Class 'C' Cement + 2% S1 mixed with 6.3 gal/sk of water for a weight of 14.8 ppg and a slurry yield of 1.34 cu ft/sack. 1" pipe and a 100 sack top out system will be available in the event that the cement does not circulate.
3. The 8 5/8" intermediate casing will be set at approximately 2800 ft in 11" hole using a float shoe, a float collar, and at least 6 centralizers. The slurry design will provide 100% excess and will include a lead slurry of 480 sacks of class 'H' cement + 3% D79 + 0.25 ppg of D29 mixed with 14.14 gal/sk of water for a weight of 12.0 ppg and a yield of 2.39 cf/sack followed by a tail slurry of 200 sacks of Class 'C' Cement + 1% S1 mixed with 6.3 gal/sk of water for a weight of 14.8 ppg and a yield of 1.33 cf/sack.
3. If run, the 5 1/2" production string will be set at about 8,500 ft in 7 7/8" hole. A float shoe, a float collar, and sufficient centralizers to centralize the casing through all prospective pay zones will be run. Sufficient slurry will be pumped to cover the uppermost prospective zone with at least 500 ft of cement using at least 20% excess slurry. Assuming a First Bone Springs Sand completion with casing set at 8,500 ft and a desired cement top of 7,000 ft (Bone Springs Sand top estimated to be below 7500 ft), the casing would be cemented with a lead system of 25 sacks of 50:50 Poz:Class 'H' Cement: +2.5% D44(bwow) + 2% D20 + 0.2% D59, mixed with 12.52 gal/sk of water for a weight of 12.0 ppg and a yield of 2.18 cf/sack. The slurry would be preceded by 20 bbls of CW-7 Chemical Wash. This slurry would be followed by a tail system of 245 sacks of 50:50 Poz:Class 'H' Cement + 5%D44(bwow) + 2% D20 + 0.2% D59. The top of the lead slurry should reach to about 6750 ft.

A stage collar will be run in the 5 1/2" casing at about 4300 ft. The casing will be cemented through the stage collar with a lead slurry consisting of approximately 160 sacks of 35:65 Poz:Class H cement + 5% D44(bwow) + 6% D20 mixed with 12.94 gal/sk of water for a weight of 12.2 ppg and a yield of 2.27 cf/sk followed by a tail slurry of 50 sacks of Class 'H' cement + 1% S1 mixed with 5.21 gal/sk of water for a mixed weight of 15.6 ppg and a yield of 1.19 cf/sk. These slurry volumes are approximate as they will be adjusted to the actual hole volume as determined by a caliper log to be run over the interval to be cemented. Sufficient slurry will be pumped to put the top of the cement up to about 2,300 ft; i.e., 500 ft into the 8 5/8" surface casing.

4. Casing seats shown are at approximate depths and cement volumes are approximate. Actual volumes may vary depending upon hole conditions and actual casing setting depths.

5. Drilling Fluid Program

A. Fluid Characteristics by Interval

1. 0 to 760 ft, Fresh water, native mud, gel, & LCM.

Weight	8.6 to 9.0 ppg
Viscosity	27 - 45 sec/qt
Fluid Loss	NC
ph	9.5 - 10
LCM	as needed

2. 760 ft to 2800 ft, Brine/ water, gel, caustic soda, lime, & polymer.

Weight	9.7 to 10.0 ppg
Viscosity	27 to 34 sec/qt
Fluid loss	NC
ph	9.5 - 10.5
LCM	as needed

3. 2800 to 6,000, Fresh water, gel, polymer, KCl, caustic soda, and lime

Weight	8.4 - 8.6 ppg
Viscosity	27 to 30 sec/qt
Fluid loss	NC
ph	9.5 - 10.0
LCM	as needed

4. 6,000 to 8,500, Fresh water, KCl, polymer, gel, caustic soda, and lime

Weight	8.8 - 9.0 ppg
Viscosity	30 to 32 sec/qt
Fluid loss	10 cc
ph	9.5 - 10.0
LCM	as needed

B. Adequate stocks of drilling fluid materials will be on hand to handle lost circulation and/or kicks should they occur.

6. Testing, Logging, Coring, and Completion Programs

A. Testing:

The Bone Springs Sand is the primary objective in this well and will possibly be drillstem tested if present. Other zones may be tested if hydrocarbon shows are encountered.

B. Logging:

A Gamma Ray/Compensated Neutron log will be run from the surface to TD.
A Dual Laterolog and a Formation Density Log will be run from TD to 7600 ft and from 6000ft to 4700 ft..
A Mud Logger will be installed and in operation from 4800 ft to TD.

C. Coring:

No conventional coring is anticipated. Sidewall cores may be taken over zones of interest.

- D. **Samples:**
Formation samples will be caught and bagged at 10 ft intervals beginning at 2800 ft.
- E. **Completion:**
Zones expected to be productive will be selectively perforated and tested. Acid treatment for mud cleanup and stimulation may be necessary. Hydraulic fracturing may be employed to increase productivity if required.

7. Anticipated Abnormal pressures, Temperatures, or Other Hazards

- A. **Abnormal Pressures:**
There have been a few isolated instances of minor over pressuring reported in the area but none is expected here. With the flow detection equipment, casing design, drilling fluid program, surface pressure control equipment, and with alerted crews, any unusual flows caused by over pressuring will be quickly detected and readily contained.
- B. **Abnormal Temperatures:**
There are no known instances of abnormally high subsurface temperatures being recorded in the area and none are expected in this well.
- C. **Other Hazards:**
Hydrogen Sulfide has been considered and none is anticipated in any of the formations to be penetrated in this well. However, monitoring equipment will be installed and crew training completed prior to drilling out of the 8 5/8" casing to be set at about 2800 ft. In the event that Hydrogen sulfide is encountered, a Hydrogen Sulfide Drilling Operations Plan is included as Exhibit "I".

8. Anticipated Starting Date and Duration of Operations

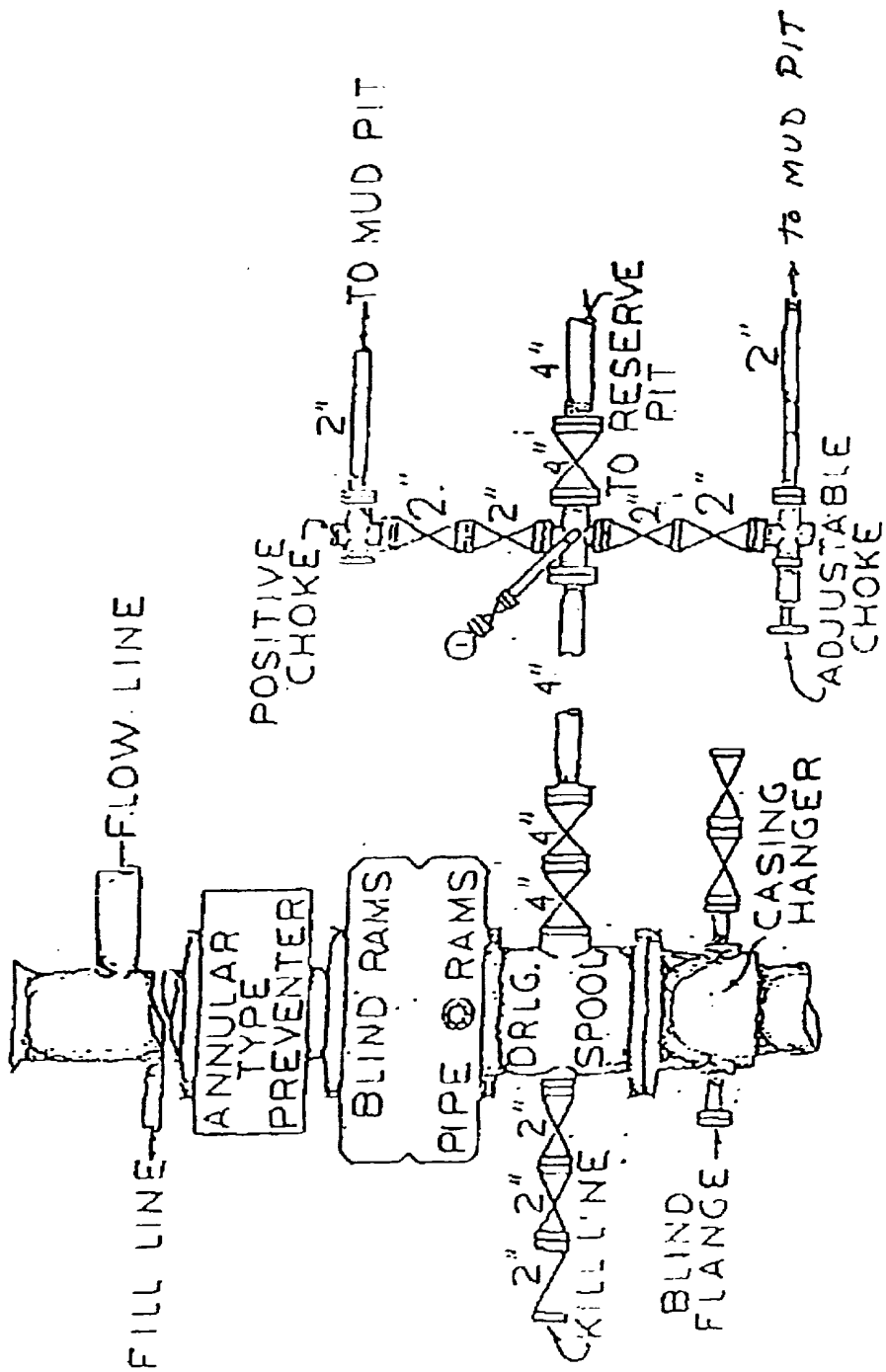
Dirt work operations will commence as soon as drilling contractor selection is completed and the required permits have been received which is expected to be late September 2001. Location and road construction will require about 5 working days. Drilling operations will require about 20 days and completion operations and surface facilities construction are estimated to require an additional 30 days.

Exhibit "F"

KCS Medallion Resources, Inc.

Typical BOP Equipment Arrangement

All BOP Equipment to be 3000 psig Working Pressure or Greater



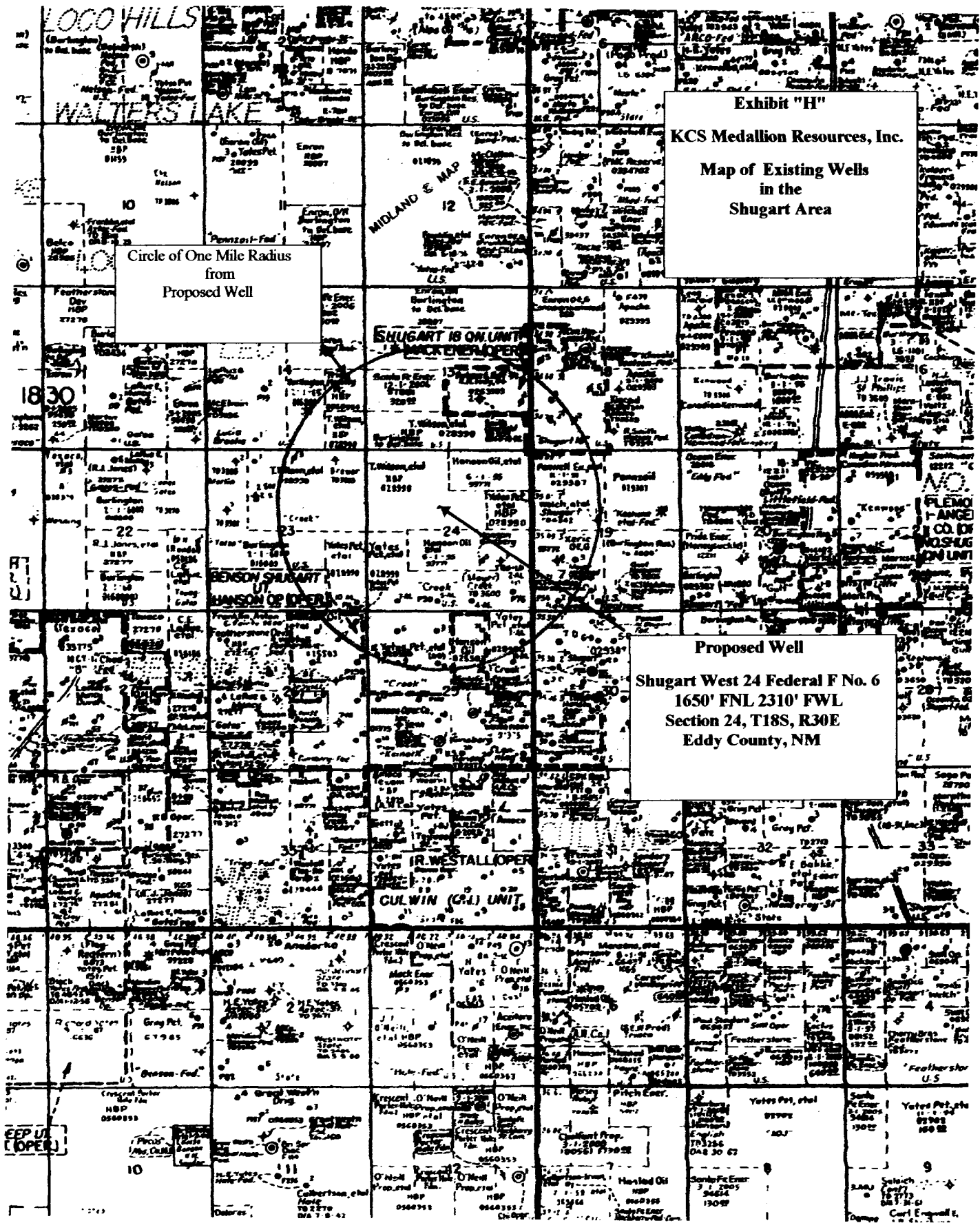


Exhibit "H"
 KCS Medallion Resources, Inc.
 Map of Existing Wells
 in the
 Shugart Area

Circle of One Mile Radius
 from
 Proposed Well

Proposed Well
 Shugart West 24 Federal F No. 6
 1650' FNL 2310' FWL
 Section 24, T18S, R30E
 Eddy County, NM

SHUGART IS ON UNIT
 SHACKENEE OPER

BENSON SHUGART
 HANSON OPER

IR. WESTALL OPER
 CULWIN (G.P.) UNIT

LOGO HILLS
 WALTERS LAKE

MIDLAND S MAP
 12

1830

22

23

24

25

26

27

28

29

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EEP UN
 (OPER)

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Exhibit "I"

KCS Medallion Resources, Inc.

Hydrogen Sulfide Drilling Operations Plan

I. Hydrogen Sulfide Training.

- A. All rig crews and company personnel will receive training from a qualified instructor in the following areas prior to penetrating any hydrogen sulfide bearing formations during drilling operations:
1. The hazards and characteristics of hydrogen sulfide (H₂S).
 2. The proper use and maintenance of H₂S safety equipment and of personal protective equipment to be utilized at the location, such as H₂S detection monitors, alarms, warning systems, and breathing equipment. Briefing areas and evacuation procedures will also be discussed and established.
 3. Proper rescue techniques and procedures will be discussed and established.
- B. In addition to the above, supervisory personnel will be trained in the prevention of oil and gas well blowouts in accordance with Minerals Management Service Standards Subpart -0- 250 - 212.

Prior to penetrating any known H₂S bearing formation, H₂S training will be required at the well site for all rig crews and company personnel that have not previously had such training. This instruction will be provided by a qualified instructor with each individual being required to pass a 20 question test regarding H₂S safety procedures. All contract personnel employed on an unscheduled basis will be required to have received appropriate H₂S training.

The Hydrogen Sulfide Drilling Operations Plan will be available at the well site during drilling operations.

II H₂S Safety Equipment and Systems.

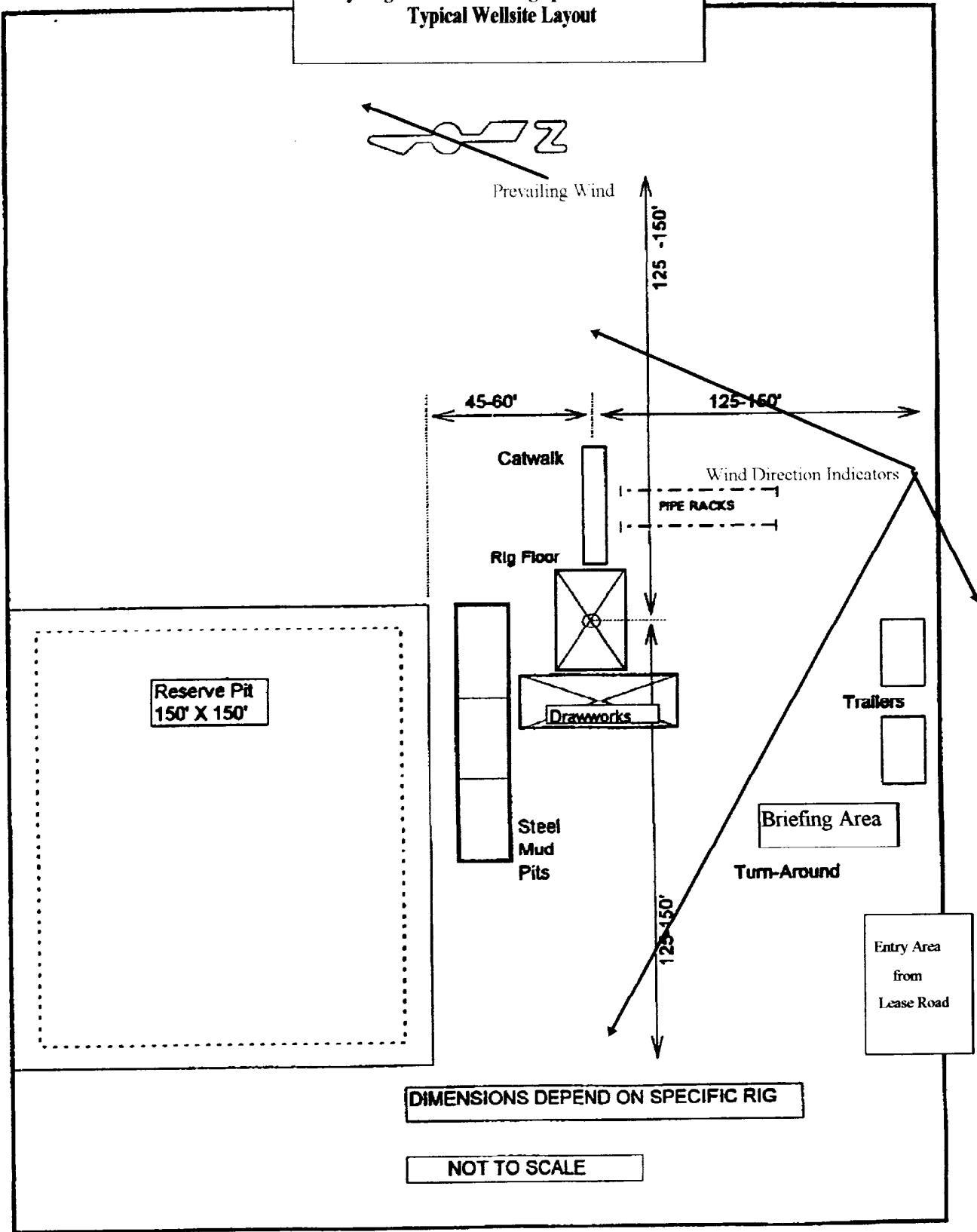
- A. All H₂S safety equipment and systems will be installed, tested, and operational when drilling operations reach a depth approximately 500 ft above any known or probable H₂S bearing formation. The safety systems to be utilized during drilling operations are as follows:
1. Well Control Equipment:
 - a. Annular BOP with a properly sized closing unit so as to accommodate all pipe sizes in use.
 - b. A choke manifold with a minimum of one remote choke.
 2. H₂s Detection and Monitoring Equipment:
 - a. Three(3) H₂S detection monitors will be placed in service at the location. One monitor will be placed near the bell nipple on the rig floor; one will be placed at the rig substructure; and one will be at the working mud pits or shale shaker. This monitoring system will have warning lights and audible alarms that will

- alert personnel when H2S levels reach 10 ppm.
 - b. One Sensidyne pump or equivalent with appropriate detection tubes will also be available to perform spot checks for H2S concentrations in any remote or isolated areas.
- 3. Protective Equipment for Essential Personnel.
 - a. Four(4) five minute escape packs located at strategic points around the rig.
 - b. Two(2) thirty minute rescue packs to be located at the designated briefing areas
- 4. Visual Warning System.

The visual warning system will consist of the following:

 - a. Three(3) wind direction indicators.
 - b. Two(2) condition/warning signs which will be posted on the road providing direct access to the location. One sign will be placed at the point that the access road leaves the public road; the second sign will be placed where the access road enters the location. The signs will contain lettering of sufficient size to be readable at a reasonable distance from the immediate vicinity. The sign will inform the public that a hydrogen sulfide gas environment could be encountered at the location

Exhibit "I" (cont.)
KCS Medallion Resources, Inc.
Hydrogen Sulfide Drilling operations Plan
Typical Wellsite Layout



DIMENSIONS DEPEND ON SPECIFIC RIG

NOT TO SCALE