

1943 ESTIMATE OF TUNGSTEN ORE RESERVES

NEVADA MASSACHUSETTS CO., EUGENE MOUNTAINS, PERSHING COUNTY, NEVADA

By Ward Smith

COMMERCIAL ORE UNDER CONDITIONS PREVAILING JUNE 1, 1943

U.S. Geological Survey
OPEN FILE REPORT

This illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

OPERATING MINES	BROKEN			MEASURED			INDICATED			INFERRED "A" (1)			INFERRED "B" (2)
	TONS	% WO ₂	UNITS WO ₂	TONS	% WO ₂	UNITS WO ₂	TONS	% WO ₂	UNITS WO ₂	TONS	% WO ₂	UNITS WO ₂	
STANK	5000	0.65	3400	3,500	0.75	2,625	9000	0.75	6,750	21,500	0.7	15,050	
SUTTON NO. 2	2,500	0.8	1,850	5,000	0.95	2,250	12,500	0.95	12,025	4,000	0.9	2,000	
HUNDRETT SPRINGER													
HUNDRETT BED	5000	0.75	3750	3000	0.75	2,250	3000	0.75	2,250	0		0	
SPRINGER BED	2,000	0.75	1,500	4,000	0.75	3,000	20,000	0.65	1,300	11,000	0.6	6,600	
GRAND BED	0		0	500	0.6	300	2,500	0.6	1,500	2,000	0.5	1,000	
Sub-Total	14,500		7,900	14,000		10,725	37,000		26,125	48,500		27,650	
INACTIVE MINES													
SPRINGER	0			500	1.0	400	1,000	0.8	800	0		0	
ORPHAN	0			1,000	0.75	750	1,200	0.75	900	3,000	0.65	1,950	
UNCLE SAM	0			300	0.5	150	2,100	0.5	1,050	2,000	0.5	1,000	
SUTTON NO. 1	500	0.6	300	300	1.0	300	2,500	0.6	1,500	0		0	
Sub-Total	500		300	2,100		1,700	7,800		4,950	5,000		2,950	
TOTAL	15,000		8,200	16,100		12,425	44,800		31,075	53,500		30,600	

(1) 60 TONS OF 0.7% WO₂ ORE PER VERTICAL FOOT FROM 2000 TO 3000 FEET.
(2) 15% OF TON OF ORE PER VERTICAL FOOT BELOW DEPTH OF 1000 FEET.
(3) 15 TONS OF 0.5% ORE PER VERTICAL FOOT FROM 1000 TO 1500 FEET.

PROSPECTS
SPRINGER RIDGE TO STANK HILL AREA MAY CONTAIN 7500 TONS OF 0.5-1.0% WO₂ ORE IN SMALL FAULTED SHOTS NEAR THE SURFACE. CONTINUATION OF AT LEAST ONE SHOT TO GREATER DEPTH IS INDICATED BY DRILL HOLES.
WEST BEDS MAY CONTAIN 5000 TONS OF 0.5-1.0% WO₂ ORE IN SMALL LENSES NEAR THE SURFACE. DRILL HOLES AT GREATER DEPTH INTERSECTED ONLY BARREN LIFESTONE.

NON-COMMERCIAL ORE UNDER CONDITIONS PREVAILING JUNE 1, 1943

OPERATING MINES	MEASURED AND INDICATED			INFERRED		
	TONS	% WO ₂	UNITS WO ₂	TONS	% WO ₂	UNITS WO ₂
HUNDRETT MINE						
NORTH END SURFACE TO 300 LEVEL	20,000	0.25	5,000	60,000	0.25	15,000
MINE END 300 TO 1000 LEVEL	5,000	0.25	1,250	15,000	0.25	3,750
SHOOT AREA	5,000	0.25	1,250	10,000	0.25	2,500
HUNDRETT BED	1,500	0.25	375	1,000	0.25	250
SPRINGER BED	2,000	0.25	500	2,000	0.25	500
GRAND BED	0		0	0		0
Sub-Total	33,500		8,375	92,000		22,000
STANK MINE	10,000	0.25	2,500	22,500	0.25	5,625
TOTAL	43,500		10,875	114,500		27,625

INACTIVE MINES AND PROSPECTS
ORPHAN AREA: POSSIBLY SOME LOW GRADE ORE WOULD BE RECOVERED FROM SMALL FAULTED SEGMENTS OF ORPHAN STRUCTURE.
SUTTON NO. 2: 10,000 TONS OF 0.5% ORE WOULD BE RECOVERED FROM SHOTS ABOVE THE 1000 LEVEL.
FLORENCE BEDS: VERY SMALL QUANTITIES OF ORE OCCUR NEAR THE SURFACE. FAVORABLE ORE IS FOUND AT OUTCROP LEVEL.

(1) ORE QUANTITIES OBTAINED ON ONE SIDE OF SHOT.
(2) CONTINUATION OF ONE SHOT PROJECTED BELOW DEEPEST KNOWN LEVEL, OR LATERALLY BEYOND FARTHEST ADVANCED FACE.
(3) 60 TONS OF 0.7% WO₂ ORE PER VERTICAL FOOT IN THE CONTINUATION OF STANK MINE BODY BETWEEN THE 300 AND 700 LEVELS SOUTH OF THE 6000 ORE. PRESENT 200 FOOT ADVANCE WITH 100 FOOT VERTICAL CONTINUATION.
(4) 15 TONS OF 0.5% WO₂ ORE PER VERTICAL FOOT IN CONTINUATION OF STANK MINE BODY BELOW 1000 LEVEL. PRESENT 100 FOOT VERTICAL CONTINUATION.